

Bloomsburg State College Bulletin

1976-1978

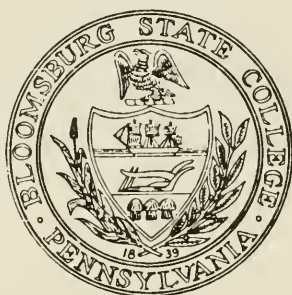


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Bloomsburg State College does not discriminate on the basis of sex, race, color, creed, age, or handicap as required by Title IX of the Education Amendments of 1972 and by other legislation.

BLOOMSBURG STATE COLLEGE BULLETIN



1976-1978

Undergraduate Catalogue

COLLEGE CALENDAR

1976 - 1977

SEMESTER I

Registration	Monday, August 30
Classes Begin	Tuesday, August 31, 8:00 a.m.
No Classes	Monday, September 6 (Labor Day)
Thanksgiving Recess Begins	End of classes on Tuesday, November 23
Classes Resume	Monday, November 29, 8:00 a.m.
Classes End	End of classes on Wednesday, December 15
Final Examination	Thursday, December 16, 8:00 a.m.
Period Begins	(and includes Sat., December 18)
First Semester Ends	Wednesday, December 22
Commencement	Wednesday, December 22

SEMESTER II

Registration	Monday, January 10
Classes Begin	Tuesday, January 11
Spring Recess Begins	End of classes on Friday, February 25
Classes Resume	Monday, March 7, 8:00 a.m.
Easter Recess Begins	End of classes on Thursday, April 7
Classes Resume	Monday, April 11, 8:00 a.m.
Classes End	End of classes on Friday, May 6
Final Examination Period Begins	Monday, May 9
Second Semester Ends	Saturday, May 14
Commencement	Sunday, May 15

1977 - 1978

SEMESTER I

Registration	Monday, August 29
Classes Begin	Tuesday, August 30
No Classes	Monday, September 5 (Labor Day)
Thanksgiving Recess Begins	End of classes on Tuesday, November 22
Classes Resume	Monday, November 28, 8:00 a.m.
Classes End	End of classes on Tuesday, December 13
Final Examination	Thursday, December 15 (and includes
Period Begins	Saturday, December 17)
Semester I Ends	Wednesday, December 21
Commencement	Wednesday, December 21

SEMESTER II

Registration	Monday, January 16
Classes Begin	Tuesday, January 17
Easter Recess Begins	End of classes on Friday, March 17
Classes Resume	Monday, March 27, 8:00 a.m.
Classes End	End of classes on Friday, May 5
Final Examination Period Begins	Monday, May 8
Semester II Ends	Saturday, May 13
Commencement	Sunday, May 14



BOARD OF TRUSTEES Bloomsburg State College

(As of December, 1975)

Miss Janis R. Ellis	Bloomsburg
Mr. Frank M. Fay	Hazleton
Mrs. Gailey C. Keller	Bloomsburg
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Mr. Joseph M. Nespoli	R.D. 2, Berwick
Mr. Richard K. Walton, Vice Chairperson	Berwick
Dr. Edwin Weisbond, Secretary	Mount Carmel
Mr. William Zurick, Chairperson	Shamokin

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Mr. Stanley J. Toczek	Students
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Commonwealth of Pennsylvania

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Ex-Officio Member, Board of Trustees

David W. Hornbeck, *Deputy Secretary of Education*
Jerome M. Ziegler, *Commissioner for Higher Education*

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(as of December, 1975)

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Patricia M. Coghlan — *Beaver Falls*
Edward L. Dardanell — *Monroeville*
Laurence Fenninger, Jr. — *Riegelsville*
Rebecca F. Gross — *Lock Haven*
Jo Hays — *State College*
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P. D. Mitchell — *Williamsport*
Irving O. Murphy — *Erie*
Ralph J. Roberts — *Elkins Park*
Bernard F. Scherer — *Greensburg*
Harvey N. Schmidt — *Philadelphia*
Charles S. Stone, Jr. — *Philadelphia*
Dr. John B. Veltri — *Pittsburgh*



James H. McCormick



Dayton S. Pickett



Boyd F. Buckingham



Jerrold A. Griffis

ADMINISTRATION 1975 - 1976

JAMES H. McCORMICK

President

B.S., Indiana University of Pennsylvania; M.Ed., Ed.D., University of Pittsburgh (1973)

DAYTON S. PICKETT

*Vice-President for Academic Affairs
Dean of the Faculties*

B.S. United States Military Academy; M.S., Iowa State University; Ph.D., University of Denver (1972)

JERROLD A. GRIFFIS

Vice-President for Student Life

B.S., West Chester State College; M.Ed., Ohio University; Ed.D., The Pennsylvania State University (1971)

BOYD F. BUCKINGHAM

Vice-President for Administration

B.S., Bloomsburg State College; M.S., Bucknell University (1953)

JOHN H. ABELL

Director of Housing

B.A., M.Ed., St. Lawrence University. (1973)

WILLIAM D. ANDRES

Assistant Director of Financial Aid

B.S., Bloomsburg State College; M.B.A., University of Scranton. (1972)

JESSE A. BRYAN

Director of the Center for Academic Development

A.B., Johnson C. Smith University; M.Ed., Temple University. (1973)

ROBERT L. BUNGE

Registrar

B.S., Bloomsburg State College; M.S., Bucknell University (1964)

CHARLES H. CARLSON

Dean, School of Graduate Studies

B.A., San Jose State College; M.A., Ed.D., Teachers College, Columbia University. (1959)

JENNIE H. CARPENTER

Assistant Dean of Student Life

B.A., University of Oklahoma; M.A., University of Alabama. (1968)

T. L. COOPER

Dean of Admissions and Records

A.B., Morehead State University; M.Ed., The Pennsylvania State University. (1970)

THOMAS A. DAVIES, JR.

*Director of Career Development and
Placement*

B.A., Waynesburg College; M.Ed., Duquesne University. (1964)

FRANK S. DAVIS, JR.

Director of Computer Services

B.S., M.Ed., Shippensburg State College; Ph.D., University of Pittsburgh. (1966)

EDSON J. DRAKE

Dean, School of Arts and Sciences

B.A., University of Notre Dame; M.A., Ph.D., Georgetown University. (1964)

- ROBERT L. DUNCAN *Director of Financial Aid*
A.B., DePauw University; M.S., Butler University. (1969)
- C. STUART EDWARDS *Dean, School of Professional Studies*
B.S., Bloomsburg State College; M.Ed., Ed.D., The Pennsylvania State University. (1958)
- NANCY L. GOHLA *Assistant Dean of Student Life*
B.A., Marquette University; M.Ed., Hofstra University. (1975)
- E. BUREL GUM *Associate Director of Admissions*
B.S., Bloomsburg State College; M.S.B.A., Bucknell University. (1970).
- RICHARD B. HAUPT *Assistant Dean of Student Life*
B.S., M.Ed., Shippensburg State College. (1968)
- KENNETH C. HOFFMAN *Director of Public Relations and Publications*
B.A., The Pennsylvania State University. (1970)
- ELTON HUNSINGER *Administrator for Campus Services*
B.S., East Stroudsburg State College; M.A., Bucknell University. (1961) (Sabbatical Leave, 1975-1976, Second Semester)
- MARGARET E. ISAACSON *Assistant Director of Career Development and Placement*
B.A., Susquehanna University; M.A., Rider College. (1974)
- PHILLIP H. KRAUSE *Assistant Director of Admissions*
B.A., M.Ed., The Pennsylvania State University. (1972)
- GLENN B. LANG *Admissions Counselor*
B.A., Bloomsburg State College. (1974)
- PAUL G. MARTIN *Assistant Vice President for Administration*
B.S., Bloomsburg State College. (1950)
- EVELYN A. MAYER *Executive Assistant to the President*
B.S., Lock Haven State College; M.Ed., Shippensburg State College; Ed.D., University of Virginia. (1974) (On leave, 1975-1976, First Semester)
- MARILYN MUEHLHOF, C.P.S. *Secretary to the President*
- JOHN S. MULKA *Director of Student Activities and the College Union*
B.S., Bloomsburg State College; M.Ed., Ohio University. (1968)
- ROBERT G. NORTON *Dean of Student Life*
B.S., Slippery Rock State College; M.Ed., University of Pittsburgh. (1962)
- EDWIN L. NOYCE *Educational Systems Specialist*
B.S., M.S., Kansas State University. (1972)
- HELEN F. OETZEL *Assistant Dean of Student Life*
B.S., M.Ed., Kent State University. (1972)
- EMMA J. PATTON *Assistant Director of the Center for Academic Development*
B.A., Grambling College. (1974)

- KENNETH PERESS *Assistant Dean of Student Life*
B.A., Harpur College; M.S., University of Bridgeport. (1972)
- THADDEUS PIOTROWSKI *Director, Learning Resources Center*
B.S., California State College; M.Ed., The Pennsylvania State University. (1960) (Sabbatical Leave, 1974-1975)
- EMORY W. RARIG, JR. *Dean, School of Business*
B.S., Bloomsburg State College; M.A., Ed.D., Teachers College, Columbia University. (1968)
- WILLIAM V. RYAN *Director of Library Services*
A.B., John Carroll University; M.A., M.S.L.S., Case-Western Reserve; M.A., University of Notre Dame. (1973)
- MERRITT W. SANDERS *Director of Institutional Research*
A.B., B.D., Drew University; Ph.D., New York University. (1966)
- KENNETH D. SCHNURE *Assistant Registrar*
B.S., Bloomsburg State College. (1970)
- JOHN J. TRATHEN *Assistant Director of Student Activities and the College Union*
B.S., M.Ed., Bloomsburg State College. (1968)
- JOHN L. WALKER *Assistant to the Vice President for Student Life*
B.B.A., M.S., Westminster College. (1965)
- WILLIAM G. WILLIAMS *Special Advisor to the President*
A.B., Gettysburg College; J.D., Dickinson School of Law. (1971)
- EUGENE S. WITHERUP *Student Data Base Manager*
A.B., St. Mary's Seminary and University, Baltimore; M.B.A., University of Pittsburgh. (1973)
- RICHARD O. WOLFE *Dean of Extended Programs*
B.S., Bloomsburg State College; M.Ed., Rutgers University; Ed.D., University of Pennsylvania. (1967)



Elton Hunsinger



William G. Williams



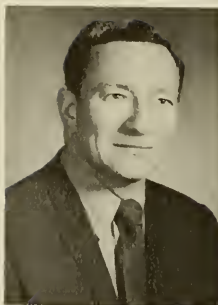
John L. Walker



Linda J. Thomas



Edson A. Drake



Emory W. Rarig



C. Stuart Edwards

FACULTY 1975 - 1976

WILLIAM A. ACIERNO, Associate Professor *Speech*
B.A., University of Pittsburgh; M.F.A., Carnegie Institute of Technology. (1966)

BRUCE E. ADAMS, Professor *Geography*
B.S., Lock Haven State College; M.Ed., Ed.D., The Pennsylvania State University. (1956)

H. M. AFSHAR, Professor *Educational Studies and Services*
B.A., University of Teheran; M.Ed., Ed.D., University of Florida. (1966)

RICHARD D. ALDERFER, Associate Professor *Speech*
B.A., Bluffton College; M.Ed., Temple University. (1967)

BEN C. ALTER, Assistant Professor *Foreign Languages*
B.A. Susquehanna University; M.Ed., University of Maine. (1964)

M. DALE ANDERSON, Associate Professor *English*
B.S.L., Nebraska Christian College; M.A., Fort Hays Kansas State College. (1965)

RICHARD G. ANDERSON, Associate Professor *History*
B.A., Western Kentucky State College; M.A., Ph.D., Texas Christian University. (1968)

WAYNE P. ANDERSON, Assistant Professor *Chemistry*
A.A.S., Jamestown Community College; B.A., Harpur College; M.S., Ph.D., University of Illinois. (1975)

BENJAMIN S. ANDREWS, Associate Professor *Communication Disorders*
B.S., University of Virginia; M.A., State University of Iowa. (1968)



Charles H. Carlson



Richard O. Wolfe

- CHRISTOPHER F. ARMSTRONG, Assistant Professor *Sociology*
B.A., Washington & Lee University; M.A., Ph.D., University of Pennsylvania. (1974)
- JOAN M. AUTEN, Associate Professor *Health, Physical Education and Athletics*
B.S., West Chester State College; M.Ed., East Stroudsburg State College. (1968)
- RAYMOND E. BABINEAU, Associate Professor *Secondary Education*
B.A., M.A., Montclair State College. (1969)
- HAROLD J. BAILEY, Associate Professor *Mathematics*
B.S., Albright College; M.Ed., Ph.D., The Pennsylvania State University. (1969)
- WILLIAM M. BAILLIE, Assistant Professor *English*
B.A., Ball State Teachers College; M.A., Ph.D., University of Chicago. (1974)
- JOHN A. BAIRD, JR., Associate Professor *Psychology*
B.A., University of Virginia; M.S., Ph.D., North Carolina State University. (1971).
- J. WESTON BAKER, Assistant Professor *Business*
B.S., University of California at Berkeley; M.B.A., M.A., Washington State University. (1969)
- MARY E. BARRALL, Assistant Professor *Special Education*
B.S., Bloomsburg State College; M.Ed., University of Delaware. (1973)
- DONALD R. BASHORE, Associate Professor *Psychology*
B.A., Susquehanna University; M.Ed., The Pennsylvania State University. (1960)
- CONRAD A. BAUTZ, Professor *Chairperson, Health, Physical Education, and Athletics*
B.S., Brooklyn College; M.S., University of Illinois; Ed.D., Teachers College, Columbia University. (1972)
- UJAGAR S. BAWA, Professor *Economics*
B.A., M.A., Punjab University; A.M., University of Pennsylvania; Ph.D., Cornell University. (1970)
- CHARLES M. BAYLER, Associate Professor *Business*
B.S., Susquehanna University; M.S.B.A., C.P.A., Bucknell University. (1965) (Sabbatical Leave, 1975-1976, First Semester)
- KARL A. BEAMER, Assistant Professor *Art*
B.S., Kutztown State College; M.F.A., The Pennsylvania State University. (1972)
- STEPHEN D. BECK, Professor *Chairperson, Mathematics*
B.S., Tufts University; M.S., Iowa State University; Ph.D., Rensselaer Polytechnic Institute. (1971)
- HENRIETTA C. BEHRENS, Assistant Professor *Elementary Education*
B.S., Glassboro State College; M.S., Ed.D., University of Pennsylvania. (1973)
- BARRETT W. BENSON, Professor *Chairperson, Chemistry*
A.B., Middlebury College; Ph.D., University of Vermont. (1967)

- RODRICK CLARK BOLER, Associate Professor *Health, Physical Education, and Athletics*
B.S., M.A., University of Alabama. (1968)
- DUANE D. BRAUN, Assistant Professor *Geography*
B.S., State University of New York at Fredonia; M.A., Johns Hopkins University. (1975)
- CHARLES M. BRENNAN, Associate Professor *Mathematics*
B.S.Ed., Bloomsburg State College; M.A., Montclair State College. (1966)
- STEPHEN M. BRESETT, Professor *Health, Physical Education, and Athletics*
B.S., P.E.D., Springfield College; M.Ed., Rutgers University. (1969)
- RICHARD J. BROOK, Professor *Philosophy*
B.A., Antioch College; M.A., Columbia University; Ph.D., New School, N.Y.C. (1967) (Sabbatical Leave, 1975-1976, Second Semester)
- LEROY H. BROWN, Associate Professor *Mathematics*
B.S., Lock Haven State College; M.Ed., The Pennsylvania State University. (1965)
- JAMES D. BRYDEN, Professor *Chairperson, Communication Disorders*
B.S., College of William and Mary; M.Ed., Ed.D., University of Virginia. (1969)
- DONALD A. CAMPLESE, Associate Professor *Psychology*
M.A., Ed.D., West Virginia University. (1972)
- KAY F. CAMPLESE, Assistant Professor *Counselor*
A.B., M.A., West Virginia University. (1969)
- WILLIAM L. CARLOUGH, Professor *Chairperson, Philosophy*
B.A., Hope College; B.D., Western Theological Seminary; S.T.M., General Theological Seminary; Ph.D., New York University. (1964)
- C. WHITNEY CARPENTER, II, Professor *Foreign Languages*
A.B., Cornell University; M.A., University of Southern California; M.S.Ed., Bucknell University; Ph.D., New York University. (1966)
- WILLARD A. CHRISTIAN, Associate Professor *Chairperson, Business Education*
B.S., Bloomsburg State College; M.S., Bucknell University. (1968)
- CHARLES W. CHRONISTER, Assistant Professor *Health, Physical Education, and Athletics*
B.S., M.Ed., East Stroudsburg State College. (1971)
- MARGARET M. L. CHU, Assistant Professor *Chemistry*
A.A., Sacramento City College; B.A., Sacramento State College; Ph.D., University of California. (1973)
- GARY F. CLARK, Instructor *Art*
B.F.A., Maryland Institute College of Art; M.A., West Virginia University. (1975)
- PAUL C. COCHRANE, Assistant Professor *Mathematics*
B.S., M.S., Ph.D., State University of New York. (1975)
- STEVEN L. COHEN, Assistant Professor *Psychology*
B.A., Oakland University; Ph.D., University of Maine. (1973)

- JAMES E. COLE, Professor *Biological Sciences*
B.A., M.A., Western Michigan University; Ph.D., Illinois State University. (1968) (Sabbatical Leave, 1975-1976, First Semester)
- JOHN F. COOK, JR., Assistant Professor *Art*
B.F.A., McGill University; M.A., Columbia University. (1974)
- JOHN H. COUCH, Assistant Professor *Music*
A.R.C.T., Royal Conservatory of Music, Toronto; M.M., Indiana University School of Music. (1972)
- JAMES B. CREASY, Professor *Business*
B.S., Bloomsburg State College; M.S.B.A., Bucknell University; Ed.D., The Pennsylvania State University. (1960)
- SYLVIA H. CRONIN, Associate Professor *Music*
B.Ed., M.Ed., Rhode Island College of Education; M.Ed., The Pennsylvania State University. (1964)
- ROBERT G. DAVENPORT, Associate Professor *Counselor*
B.S., M.S., Bucknell University. (1961) (Sabbatical Leave, 1975-1976, Second Semester)
- WILLIAM K. DECKER, Associate Professor *Chairperson, Music*
B.S., M.M., Eastman School of Music of the University of Rochester. D.M.A., Temple University. (1963)
- JOSEPH A. DeFELICE, Associate Professor *Sociology and Anthropology*
B.S., The Pennsylvania State University; M.S.W., University of Pittsburgh. (1970)
- BLAISE DELNIS, Associate Professor *Foreign Languages*
A.B., Lukow University; M.A., Fordham University. (1965)
- JOSEPH A. DeMELFI, Instructor *Health, Physical Education and Athletics*
B.S.E., M.Ed., Delta State University. (1974)
- JOHN E. DENNEN, Assistant Professor *Business*
B.S., Bloomsburg State College; M.S., Bucknell University. (1965)
- JOHN C. DIETRICH, Associate Professor *History*
A.B., Capital University; M.A., Ohio State University. (1965)
- LESTER J. DIETTERICK, Associate Professor *Business*
B.S., M.Ed., Bloomsburg State College; M.S.B.A., Bucknell University. (1966)
- BERNARD C. DILL, Professor *Business*
B.S., M.B.A., The Pennsylvania State University; D.B.A., George Washington University. (1968)
- BARBARA M. DILWORTH, Associate Professor *Economics*
B.A., Chestnut Hill College; M.A., University of Pennsylvania. (1966)
- DOYLE G. DODSON, Assistant Professor *Business*
B.S., M.Ed., Bloomsburg State College. (1967)
- VIRGINIA C. DOERFLINGER, Assistant Professor *Speech*
B.S., New York University; M.A., Columbia University. (1968)
- RICHARD J. DONALD, Assistant Professor *Elementary Education*
B.S., East Stroudsburg State College; M.S., Kansas State University. (1968)



JUDITH P. DOWNING, Assistant Professor *Biological Sciences*
B.S., Bowling Green State University; M.A., Ph.D., State University
of New York at Buffalo. (1975)

VIRGINIA A. DUCK, Assistant Professor *English*
B.A., The Pennsylvania State University; M.A., Bucknell University.
(1958)

WILLIAM D. EISENBERG, Associate Professor *English*
B.A., University of Delaware; M.A., Lehigh University. (1960) (Sab-
batical Leave, 1975-1976)

DONALD E. ENDERS, Professor *Secondary Education*
B.S., Gettysburg College; M.A., New York University; Ed.D., The
Pennsylvania State University. (1968)

JOHN A. ENMAN, Professor *Geography*
B.A., University of Maine; M.A., Harvard University; Ph.D., Univer-
sity of Pittsburgh. (1959)

PHILLIP A. FARBER, Professor *Biological Sciences*
B.S., King's College; M.S., Boston College; Ph.D., Catholic University
of America. (1966)

RONALD A. FERDOCK, Associate Professor *English*
A.B., St. Vincent College; M.A., The Pennsylvania State University.
(1965)

JOHN R. FLETCHER, Assistant Professor *Biological Sciences*
B.S., M.Ed., Bloomsburg State College. (1969)

GERTRUDE E. FLYNN *Professor of Nursing*
R.N., Carney Hospital; B.S., University of Rochester; M.S., Univer-
sity of Buffalo; D.N.S., Boston University. (1974)

ARIADNA FOUREMAN, Professor *Foreign Languages*
B.A., M.A., Ph.D., The Ohio State University. (1969)

WENDELIN R. FRANTZ, Professor *Chairperson, Geography*
A.B., College of Wooster; M.S., Ph.D., University of Pittsburgh.
(1968)

- ERICH F. FROHMAN, Associate Professor *Speech*
B.A., Columbia College; M.A., Syracuse University. (1966)
- ROGER W. FROMM, Instructor *Library, Reference Librarian*
B.A., Ohio Wesleyan University; M.Ed., University of Vermont;
M.L.S., Rutgers University. (1974)
- WILLIAM J. FROST, Assistant Professor *Library, Reference Librarian*
B.A., Old Dominion University; M.L.S., Rutgers Graduate School of
Library Service. (1972)
- LAWRENCE B. FULLER, Assistant Professor *English*
A.B., Dartmouth College; M.A., Columbia University; Ph.D., The
Johns Hopkins University. (1971)
- FRANCIS J. GALLAGHER, Assistant Professor *Business*
A.B., Stonehill College; M.B.A., Temple University. (1972)
- P. JOSEPH GARCIA, Assistant Professor *Physics*
B.S., Kent State University; M.S., New Mexico Highlands University.
(1968) (Sabbatical Leave, 1975-1976, First Semester)
- MARY T. GARDNER, Instructor *Health, Physical Education
and Athletics*
B.S., East Stroudsburg State College. (1974)
- HALBERT F. GATES, Professor *Physics*
B.S., Milwaukee State Teachers College; Ph.M., University of Wisconsin;
Ph.D., Michigan State University. (1969)
- MICHAEL W. GAYNOR, Professor *Chairperson, Psychology*
B.A., Muhlenberg College; M.S., Lehigh University; Ph.D., Colorado
State University. (1970)
- GEORGE J. GELLOS, Associate Professor *Biological Sciences*
B.S., Muhlenberg College; M.S., Ohio University; Ph.D., The Pennsylvania
State University. (1965)
- MARTIN M. GILDEA, Associate Professor *Political Science*
B.A., St. Vincent College; M.A., University of Notre Dame. (1966)
- NANCY E. GILL, Assistant Professor *English*
B.A., M.A., Washington State University. (1968)
- NORMAN M. GILLMEISTER, Assistant Professor *Geography*
B.A., Harvard College; M.A., Indiana University; M.A., Ph.D., Harvard
University. (1973)
- GLENN A. GOOD, Associate Professor *Secondary Education*
B.S., M.S., Bucknell University; Ed.D., The Pennsylvania State University.
(1969)
- MELINDA A. GRAHAM, Assistant Professor *Communication Disorders*
B.S., Bloomsburg State College; M.S., Temple University. (1974)
- DAVID E. GREENWALD, Associate Professor *Sociology and
Anthropology*
B.A., University of Pennsylvania; M.A., Ph.D., University of California
at Berkeley. (1970)
- JOANNE S. GROWNEY, Associate Professor *Mathematics*
A.B., Bucknell University; M.A., Lehigh University; Ph.D., University
of Oklahoma. (1970)

- ERVENE F. GULLEY, Assistant Professor *English*
A.B., Bucknell University; M.A., Ph.D., Lehigh University. (1970)
- HANS KARL GUNTHER, Professor *History*
A.B., M.A., Washington University; Ph.D., Stanford University.
(1965)
- DAVID J. HARPER, Professor *Physics*
B.S., Ph.D., University of Nottingham. (1966)
- PAUL G. HARTUNG, Associate Professor *Mathematics*
B.A., Montclair State College; M.A., University of Colorado; Ph.D.
The Pennsylvania State University. (1968)
- JOHN E. HARTZEL, Assistant Professor *Business*
B.S., Bloomsburg State College; M.Ed., Lehigh University. (1970)
- MICHAEL HERBERT, Professor *Biological Sciences*
B.S., University of Maryland; Ph.D., Lehigh University. (1963)
- ALICE G. HERMAN, Assistant Professor *Nursing*
B.S.N., Case Western Reserve University; M.S.N., University of
Kentucky. (1975)
- CHARLOTTE M. HESS, Assistant Professor *Elementary Education*
B.S., M.Ed., Bloomsburg State College. (1972)
- ROBERT B. HESSERT, Associate Professor *Psychology*
B.A., M.S., The Pennsylvania State University; Ph.D., University of
Pittsburgh. (1972)
- SUSAN J. HIBBS, Instructor *Health, Physical Education and Athletics*
B.S., Western Kentucky University; M.Ed., East Stroudsburg State
College. (1975)
- NORMAN L. HILGAR, Professor *Business*
B.A., Grove City College; M.A., Ed.D., University of Pittsburgh.
(1956)
- FREDERICK C. HILL, Assistant Professor *Biological Sciences*
B.S., M.S., Illinois State University; Ph.D., University of Louisville.
(1975)
- CRAIG L. HIMES, Professor *Chairperson, Biological Sciences*
B.S., Clarion State College; M.S., Ph.D., University of Pittsburgh.
(1961)
- CLAYTON H. HINKEL, Associate Professor *Business*
B.S., Bloomsburg State College; M.Ed., Temple University. (1947)
- CARL M. HINKLE, Assistant Professor *Health, Physical Education,
and Athletics*
B.S., Montana State University; M.S., Ithaca College. (1971)
- MELVILLE HOPKINS, Professor *Chairperson, Speech*
A.B., M.A., Bucknell University; Ph.D., The Pennsylvania State Uni-
versity. (1960)
- LEE C. HOPPLE, Professor *Geography*
B.S., Kutztown State College; M.S., Ph.D., The Pennsylvania State
University. (1961)
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- JANICE M. YOUSE, Assistant Professor *Speech*
 B.S., M.A., Temple University. (1965)
- JOSEPH M. YOUSHOCK, Assistant Professor *Special Education*
 B.S., M.Ed., Bloomsburg State College. (1971)
- MATTHEW ZOPPETTI, Professor *Educational Studies
 and Services*
 B.S., California State College; M.Ed., University of Pittsburgh; Ph.D.,
 University of Maryland. (1969)

Part-Time Faculty 1975 - 1976

- THOMAS R. DEANS, Instructor *English*
A.B., Bucknell University; M.A., University of Iowa. (1974)
- ROBERT G. DECKER, Instructor *Geography*
B.S., Antioch College; M.C.P., The Ohio State University. (1975)
- HENRY G. DOBSON, Instructor *Geography*
B.S., Bloomsburg State College; M.S., Syracuse University. (1974)
- RAYMOND A. ETTERS, Instructor *Health, Physical Education,
and Athletics*
B.S., M.S., Shippensburg State College. (1974)
- JOHN W. E. HARVEY, Instructor *Reading Clinic*
B.S., Lock Haven State College; M.A., Bloomsburg State College.
(1975)
- NORMAN D. NAMEY, Assistant Professor *Reading Clinic*
B.S., M.A., Bloomsburg State College; Ed.D., Lehigh University.
(1975)
- JOHN J. RABETS, Assistant Professor *Reading Clinic*
B.S., The Pennsylvania State University; M.Ed., Bloomsburg State
College; M.Ed., Lehigh University. (1972)
- ROBERT M. ROHM, Instructor *Health, Physical Education,
and Athletics*
B.S., M.Ed., Bloomsburg State College. (1974)
- MARILYN B. SAVESON, Associate Professor *English*
Ph.B., M.A., The University of Chicago; Ph.D., The University of
Cambridge (England). (1974)
- DORIS S. SEWARD, Instructor *Public School Nursing*
R.N., Nesbitt Memorial Hospital Nursing School; B.S., Bloomsburg
State College. (1973)
- VIRGINIA S. SIMON, Assistant Professor *Media Coordinator,
Center for Academic Development*
A.B., Livingston College; M.A., Wellesley College. (1973)
- MARIE S. SPEAR, Instructor *Public School Nursing*
R.N., King's County Hospital Center; B.S., M.A., New York Univer-
sity. (1972)
- WILLIAM C. ZEHRINGER, Instructor *English*
B.A., LaSalle College; M.A., Temple University. (1974)

College Services

LLOYD H. ANDERSON	<i>Purchasing Agent</i>
WILLIAM BAILEY, JR.	<i>Manager, College Store</i>
GEORGE R. BIRNEY	<i>Director of Personnel</i>
GLENN BLYLER	<i>Assistant Purchasing Agent</i>
PAUL L. CONARD	<i>Director of Administrative Services</i>
B.S., Bloomsburg State College	
BRUCE C. DIETTERICK	<i>Information Specialist</i>
B.A., The Pennsylvania State University	
NELLIE EDWARDS	<i>Duplicating Supervisor</i>
GEORGE J. EGET	<i>Information Writer</i>
B.A., The Pennsylvania State University	
DONALD E. HOCK	<i>Director of Fiscal Management</i>
B.A., Bloomsburg State College	
C. DONALD HOUSENICK	<i>Assistant Director of Computer Services</i>
ELIZABETH KEISER	<i>Clerical Supervisor (Payroll)</i>
FRANK A. LORAH	<i>Student Life Accountant</i>
B.S., Bloomsburg State College	
CHARLES A. ROBBINS	<i>Director of Physical Plant</i>
PAUL G. SLOCUM	<i>Licensed Physical Therapist</i>
KEITH WAGNER	<i>Director of Safety and Security</i>

Faculty Emeriti

HARVEY A. ANDRUSS, President Emeritus (September, 1969)*
LUCILE J. BAKER (May, 1956)
IVA MAE V. BECKLEY (May, 1970)
ERNEST H. ENGELHARDT (August, 1968)
HOWARD F. FENSTEMAKER (May, 1963)
WILLIAM C. FORNEY (May, 1959)
CHESTER M. HAUSKNECHT (July, 1950)
EDNA J. HAZEN (January, 1958)
RALPH S. HERRE (May, 1972)
JOHN A. HOCH, Dean Emeritus (May, 1975)
ELLAMAE JACKSON (August, 1971)
ROYCE O. JOHNSON (May, 1973)
ELINOR R. KEEFER (July, 1968)
PEARL MASON KELLER (May, 1945)
HAROLD H. LANTERMAN (July, 1973)
CYRIL A. LINDQUIST (May, 1975)
MARY E. MACDONALD (May, 1969)
LUCY McCAMMON (January, 1958)
HILDEGARD PESTEL (August, 1974)
ETHEL A. RANSON (January, 1954)
HERBERT H. REICHARD (May, 1971)
KENNETH A. ROBERTS (August, 1972)
J. ALMUS RUSSELL (May, 1965)
WALTER S. RYGIEL (January, 1968)
M. BEATRICE METTLER SAHLE (May, 1969)
RUSSELL F. SCHLEICHER (May, 1962)
ANNA G. SCOTT (May, 1956)
JOHN J. SERFF, SR. (May, 1975)
CECIL C. SERONSY (May, 1973)
WILLIAM B. STERLING (May, 1973)
GEORGE G. STRADTMAN (August, 1972)
MARGARET E. WALDRON (January, 1956)
ELIZABETH B. WILLIAMS (August, 1969)
GRACE H. WOOLWORTH (May, 1956)

*The date in parentheses is date of retirement.

Adjunct Faculty Medical Technology Program

Abington Memorial Hospital
Abington, Pa.

JOHN W. ELMAN, M.D., *Director*
MS. BARBARA J. SCHEELJE, MT (ASCP), *Educational Coordinator*

Geisinger Medical Center
Danville, Pa.

JOHN J. MORAN, M.D., *Director*
CHRISTINE SMULL, Ph.D., *Supervisor, Medical Technology Program*

Lancaster General Hospital
Lancaster, Pa.

WARD M. O'DONNELL, M.D., *Director*
JOSEPH J. GALLOGHER, *Director, Education and Training*

Mercy Catholic Medical Center
Darby, Pa.

GEORGE E. McNEAL, M.D., *Director*
MRS. ESTOLLE GROSS, *Educational Coordinator*

Robert Packer Hospital
Sayre, Pa.

DONALD R. WAEVER, M.D., *Director*
JAMES L. BENDER, B.S., MT (ASCP), *Educational Coordinator*

Sacred Heart Hospital
Allentown, Pa.

F. V. KOSTELNIK, M.D., *Director*
MRS. CAROL J. DURKA, MT (ASCP) *Educational Coordinator*

St. Joseph's Hospital
Reading, Pa.

JASPER CHEN SEE, M.D., *Laboratory Director*
MS. JEAN WADE, B.S., MT (ASCP), *Educational Director*

Wilkes-Barre General Hospital
Wilkes-Barre, Pa.

C. E. RODRIQUEZ, M.D., *Director*
MS. HELEN RUANE, MT (ASCP), *Education Coordinator*



1. GENERAL INFORMATION

1.1 INTRODUCTION

Bloomsburg State College, as one of the fourteen state-owned institutions of higher education in Pennsylvania, has been charged by the Commonwealth to serve as “. . . a center of learning for the best possible education of the youth of Pennsylvania in the arts and sciences and to provide able and dedicated teachers. . . .”

The arts and sciences are regarded as fundamental to all of the activities implied by this charge. During the past several years, the College has moved to strengthen the academic departments and to expand the range of services through the addition of pre-professional programs, continuing education, programs in the health-related sciences and business administration.

Although dedicated primarily to undergraduate work, the College offers masters degrees in teacher education and in certain academic disciplines.

Bloomsburg State College welcomes qualified students, faculty and staff without regard to racial, religious or ethnic backgrounds.

1.2 ORGANIZATION

Bloomsburg State College is organized in five schools, Arts and Sciences, Professional Studies, Business, Extended Studies and Graduate Studies. The scope and internal structure of each school is described in the appropriate chapter of this catalogue.

1.3 LOCATION

The Town of Bloomsburg, county seat of Columbia County, is an industrial, trading, and residential community of 11,000 located on Route 11, 80 miles north of Harrisburg. It is within two miles of two interchanges of Interstate 80.

Bloomsburg is served by the Greyhound and Continental Trailways bus lines. Commercial airports are accessible at Hazleton near Route 80, at Wilkes-Barre-Scranton on Route 81, and at Williamsport; each is about an hour's drive from Bloomsburg.

1.4 HISTORY

An academy “to teach youth the elements of a classical education” was established in Bloomsburg in 1839. The academy



continued with varied fortunes until 1856, when a charter was prepared and stock issued to reorganize as **Bloomsburg Literary Institute**. A building now known as Carver Hall in memory of Henry Carver, principal at the time, was erected in 1867.

Largely through the efforts of J. P. Wickersham, Superintendent of Public Instruction, **Bloomsburg Literary Institute** became **Bloomsburg Literary Institute and State Normal School** in 1869; it continued under this name and organization until 1916 when it was purchased by the Commonwealth and called **Bloomsburg State Normal School**.

Although the high school movement was making the preparatory curriculum unnecessary, it was continued until 1920; meanwhile a two-year post high school program dedicated to professional preparation of teachers for the elementary schools was being inaugurated and strengthened. Teacher education became the sole institutional purpose in 1920.

In 1927, the name of the school was changed to **Bloomsburg State Teachers College** and authority was granted to offer the degree, Bachelor of Science in Education, for curricula for teaching in secondary and elementary schools. This, together with changes in teacher certification, led to the phasing out of the non-degree curricula. In 1930, the offerings were extended to include the special field of business education. A division of Special Education was inaugurated in 1957, although the College had offered certification programs in this area as early as the 1940's.

In 1960 the name of the school was changed to Bloomsburg State College; authorization was received shortly thereafter to grant the Bachelor of Arts degree for liberal arts programs in humanities, social sciences, and natural sciences. In 1960, graduate study leading to the Master of Education degree was inaugurated. In 1968, initial approval was received for the degree, Master of Arts and in 1970 for the degree, Master of Science.

Current efforts are directed toward development as a multiple-purpose college offering liberal arts and teacher education curricula at the undergraduate and master's degree levels, and business and other professional curricula in vocations other than teaching as these are suited to the resources of the College.

1.5 ACCREDITATION

Bloomsburg State College is fully accredited by the Middle States Association of Colleges and Secondary Schools, the National Council for the Accreditation of Teacher Education, and the Pennsylvania State Board of Education.

The College is recognized by the American Chemical Society (see Chemistry).

1.6 BUILDINGS AND FACILITIES

Campus

The campus of Bloomsburg State College comprises two tracts called the Lower Campus and Upper Campus, with total area of 173 acres.

The Lower Campus comprises the original campus and adjacent areas subsequently acquired. It contains the residence halls, dining hall, college store, administration building, auditorium, library, academic buildings and recreation areas. The Upper Campus, a half mile from the Lower Campus, was once the Bloomsburg Country Club; it contains the E. H. Nelson Field House, the Redman Stadium, the Litwhiler Baseball Field and three practice areas. Long-range plans presume further development of the Upper Campus for academic and recreation purposes.

Instructional Buildings

Bakeless Center for the Humanities, completed in 1970, is an air-conditioned building containing classrooms, lecture halls, faculty offices, and an exhibit area. It is used primarily by the departments of English, art, foreign languages, speech, economics and political science. The building was named for the

Bakeless family including: Professor Oscar H. Bakeless, a graduate of the school and former distinguished member of the faculty; his wife, Sara H. Bakeless, a graduate and former faculty member; their son, Dr. John E. Bakeless, graduate of the college, an author, and a recipient of the Alumni Distinguished Service Award; their daughter, Mrs. Alex Nason, a graduate and benefactor of the college; and their daughter-in-law, Mrs. Katherine L. Bakeless, graduate of the school and a nationally-known author.

Hartline Science Center, completed in 1968, is an air-conditioned facility with classrooms, lecture halls, seminar rooms, laboratories, faculty offices and an exhibit area; it accommodates the departments of chemistry, physics, biology, mathematics, and earth and space science.

The name of the building honors Daniel S. Hartline, a former teacher of biology, and his son Dr. H. Keffer Hartline, 1968 Nobel Prize laureate and recipient of an Alumni Distinguished Service Award.

Sutliff Hall, completed in 1960, contains classrooms and faculty offices of the School of Business and several laboratories and classrooms for physical sciences. William Boyd Sutliff for whom the building was named was a teacher of mathematics and the first Dean of Instruction of Bloomsburg State Normal School.

Benjamin Franklin Hall, completed in 1930 for use as a campus laboratory school, is now used for college classes, administrative offices, and the Computer Services Center.

Navy Hall was constructed in 1939 as a campus laboratory school but was converted during World War II for the use of candidates enlisted in the Navy V-12 Officer Training Program. It now houses the work in special education and communication disorders and provides a number of other classrooms and offices.

Science Hall, built in 1906, contains classrooms and faculty offices which are currently used for general purposes.

Centennial Gymnasium, completed in 1939, contains a gymnasium which seats 1,200, two auxiliary gymnasiums, a swimming pool, and offices and classrooms for physical education and athletics.

E. H. Nelson Field House. This building, located on the Upper Campus, was completed in 1972. It provides a varsity basketball court and folding bleachers for 2,600 spectators. The seating area can be expanded to more than 5,000. There is an indoor track, and a six-lane varsity swimming pool with seating for 500 spectators. Faculty offices, handball courts, classrooms, shower and dressing areas, equipment rooms, and



special rooms for physical training and therapy are included. The building is used for health and physical education classes, varsity athletic contests, and for other activities requiring seating of large audiences.

Bus transportation is provided between this building and the Lower Campus.

Dr. E. H. Nelson, for whom the building is named, was for many years Director of Athletics.

Residence Halls, Dining Rooms, College Union

Columbia Hall, completed in 1970, is a nine-story residence hall for four hundred women. It contains lounges, study rooms, recreation areas, a special projects rooms, guest rooms, and apartments for counsellors.

Elwell Hall, completed in 1968, is a nine-story residence hall which can accommodate 678 men. It contains recreation rooms and lounges, guest rooms, study rooms and apartments for staff. Its name honors Judge William Elwell, a former trustee of the College, George E. Elwell, his son, a graduate and former trustee, and G. Edward Elwell, his grandson, a graduate and former instructor in French.

Luzerne Hall, a four-story coeducational residence hall completed in 1967, accommodates 300 students, with men and women on alternate floors. It includes lounge and recreation areas, study rooms, and apartments for counsellors.

Montour Hall and Schuylkill Hall, four-story residences completed in 1964, accommodate five hundred women. Each hall is divided into two wings; each has recreation and lounge areas, study rooms, and apartments for counsellors.

Northumberland Hall, completed in 1960, accommodates two hundred women. There are lounge and recreation areas, study rooms, and apartments for counsellors. (Luzerne, Columbia, Montour, Schuylkill, and Northumberland are names of counties from which many students come to Bloomsburg.)

William W. Scranton Commons, completed in 1970, is an air-conditioned dining facility with one thousand seats and with capacity to serve two thousand students at each meal. Folding partitions permit flexibility of arrangement. A faculty dining room and two lounges are in the building. William W. Scranton was Governor of Pennsylvania from 1963 to 1967.

College Store. This building was completed in 1956 and used until 1970 as the college Commons and from 1970 until 1973 as a temporary Union. The building has been remodeled and is now used as the College Store for the sale of textbooks and supplies.

Marguerite W. Kehr College Union. The Kehr College Union houses the Student Bank, a formal lounge, a snack bar and dining area, a multi-purpose room, a mail room and, mailboxes for commuting students, a game room, television room, listening room, offices for student organizations and publications, the college infirmary, an information center, and storage area. Its name honors the late Dr. Marguerite W. Kehr, who was Dean of Women at the College, 1928 to 1953.

Administration and Service Buildings

Waller Administration Building. This structure, completed in 1972, contains administrative offices, vaults, conference rooms, a centralized area for the Business Office and an area for receiving, storing and distributing college supplies and equipment. The building is named for D. J. Waller, Jr., who served for twenty-seven years as principal of the normal school.

Francis B. Haas Center for the Arts, completed in 1967, contains a two thousand seat auditorium with its stage planned for dramatic productions as well as general auditorium purposes. The building also contains classrooms, offices and other facilities for music, debating, and drama groups, and lounges and exhibit areas. Dr. Francis B. Haas, for whom the auditorium was named, was President of the College from 1927 to 1939. Prior to and subsequent to this period he served as the Pennsylvania State Superintendent of Public Instruction.

Andruss Library, completed in 1966, contains seating for 750 readers, shelving for 200,000 volumes, a projection room, curriculum materials center and an audio-visual materials center. It was named for Dr. Harvey A. Andruss, who served as President of the College from 1939 to 1969 and who during nine years prior to becoming president established the division of business

education and then served as Dean of Instruction.

Carver Hall, built in 1867, is the oldest building on the campus. It contains a 900-seat auditorium and the office of the President.

Buckalew House, originally the home of Charles R. Buckalew, United States Senator from 1863 to 1869 and trustee of the Normal School, was acquired by the Commonwealth for the President's home in 1926.

Campus Maintenance Center completed in 1970, houses offices, storage areas and workshops used by the plant maintenance engineer and his staff.

Parking Garage. A multi-level concrete structure completed in 1972 accommodates approximately 200 cars.

Athletics and Recreation Areas

Redman Stadium, designed for football and track events, and located on the Upper Campus, was completed in 1974. Permanent concrete bleachers on the west side provide seating for 4,000 spectators, and movable bleachers on the east side increase the total seating capacity to nearly 5,000. There is a press box for radio, television and newspaper personnel. A six-lane track and specialized areas for field events are part of the field.

Robert B. Redman, for whom the stadium is named, was assistant dean of men and head football and baseball coach from 1947 until 1952. Teams which he coached gained state and national recognition.

Litwhiler Field, a baseball field completed in 1974, is located east of Redman Stadium. It was named in honor of Danny Litwhiler, who is currently head baseball coach at Michigan State University. Litwhiler, who was coached by Dr. E. H. Nelson, starred at Bloomsburg in the late 1930's, and played for several major league baseball teams prior to beginning his career as a college baseball coach at Florida State University.

Practice Fields. Three practice fields are included in the total athletics complex on the Upper Campus. One of these is also used for varsity soccer games.

1.7 BLOOMSBURG FOUNDATION

The Bloomsburg Foundation was established in 1970 as a non-profit educational corporation to assist the College in functions for which state funds should not or cannot be used. The Foundation may solicit, receive and manage gifts and grants from individuals, corporations, or other foundations; its funds are used to assist the College in carrying out its educational mission. The Vice President for Administration is the president and chief executive officer of the Foundation.

2. EXPENSES, FEES AND REFUNDS

(Fees are subject to change without notice.)

2.1 COMMUNITY ACTIVITIES FEE

A Community Activities Fee of \$30.00 per semester is charged each full-time undergraduate student. Community Activities fees finance student activities in athletics, lectures, student publications, entertainments, student organizations, etc.

2.2 BASIC FEES

Semester Fees, Full-Time Undergraduate Students

The basic semester fee for full-time students who are residents of Pennsylvania is \$400.00. An extra fee of \$33.00 per semester hour is charged for loads in excess of 18 semester hours in any one semester.

Fees, Part-time Students, Pennsylvania Residents

Undergraduate students who take fewer than twelve semester hours in a semester pay fees of \$31.00 per semester hour.

Fees, Graduate Students, Pennsylvania Residents

Graduate students who are residents of Pennsylvania pay \$42.00 per semester hour.

Fees, Out-of-State Students

Out-of-state undergraduate students pay fees of \$750.00 for 12 to 18 semester hours in one semester with an extra fee of \$60.00 per semester hour for loads that exceed 18 semester hours. Part-time students pay \$60.00 per semester hour up to and including 11 semester hours.

The corresponding fees for graduate students are \$750.00 for 9 to 15 semester hours and \$80.00 per semester hour for loads in excess of 15 semester hours.

The definition of out-of-state student may be obtained from the Business Office.

Summer Session Fees

Undergraduate students who are residents of Pennsylvania pay fees at the rate of \$33.00 per semester hours.

Graduate students who are residents of Pennsylvania pay

\$43.00 per semester hour.

Out-of-state students pay fees at the rate of \$60.00 per semester hour for Undergraduates and \$80.00 per semester hour for Graduate Students.

2.3 HOUSING FEES

Residence Halls

Room and meals in a campus residence hall cost \$450 per semester, \$174 for a six-week summer session, \$87 for a three-week summer session.

The Fall Semester fee is payable before August 15; it may be paid in two installments, \$225 before August 15 and \$225 before November.

Keys

A fee of \$15.00 is charged for replacing a lost room key.

2.4 ADVANCE PAYMENT OF FEES

An *Advance Registration Fee* of \$35.00 is payable when an individual is approved for admission as an undergraduate student or when a former student is approved for readmission. This fee is credited to the first basic fee payment.

The *Community Activities Fee* for one year (\$60.00) is payable when a student is approved for admission for the Fall Semester or when a former student is approved for readmission after he had been out of school for one or more semesters.

An Advance Housing deposit of \$50.00 is required and payable to reserve a room and negotiate a housing contract for the academic year. This deposit must be paid prior to room assignment and is credited to the housing charge for the current semester. This deposit is refundable only under certain conditions.

2.5 RULES GOVERNING PAYMENT OF FEES

Bank drafts, post-office money orders, or checks must be made out for the exact amount of the fee.

Fees other than the Activities Fee are payable to the Commonwealth of Pennsylvania; money orders should be drawn on the Post Office at Harrisburg.

Activities Fees are payable to Community Activities; money orders must be drawn on the Post Office at Bloomsburg.

Fees are due at times determined by the Business Office.

The College reserves the right to withhold information

concerning the record of a student who is in arrears in fees or other charges, including student loans.

The College does not offer a time payment plan. Billing statements of student accounts are mailed prior to registration each semester. Failure to comply with the directive concerning payment excludes the student from registration.

Inquiries concerning fees may be addressed to the Business Manager.

2.6 MEALS FOR OFF-CAMPUS RESIDENTS

Students who live off-campus may take their meals in the dining halls if space is available, at the rate of \$216 per semester.

Daily Rate for Transients

The daily rate for transient meals and lodging is:

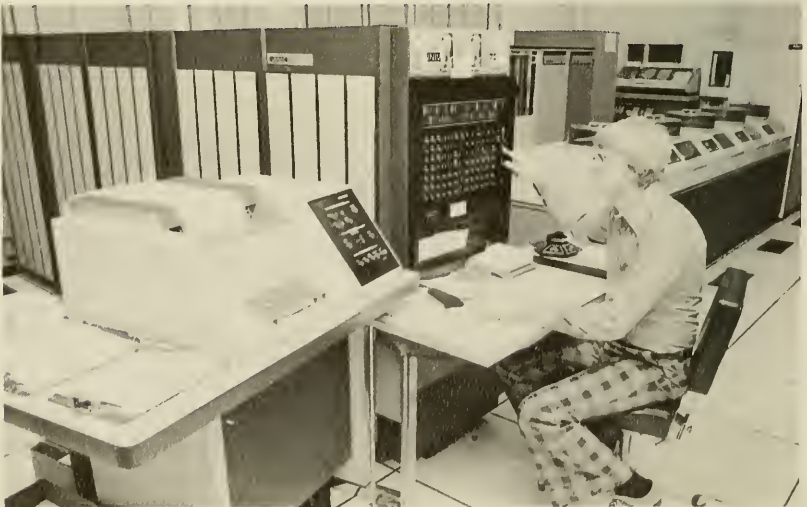
Breakfast	\$.90
Lunch	1.15
Dinner	1.85
Room	1.50

Arrangements for room guests must be approved by the resident dean of the hall where the guest will be housed.

2.7 MISCELLANEOUS FEES

Diploma Fees

A Diploma Fee is charged at graduation as follows: Baccalaureate degree, \$5.00; Master's degree, \$10.00.



Transcript Fee

A fee of \$1.00 is charged for the second and each subsequent transcript of a student's record.

Late Registration Fee

A late registration fee of \$10.00 is charged a student who completes registration after the official registration date.

Application Fee

An Application Fee of \$10.00 must be paid by each applicant, undergraduate and graduate, at the time of request for registration.

Student Community Building Fee

A fee of \$10.00 per semester is charged for regular sessions; \$1.00 for one to three weeks summer session, and \$2.00 for four to six weeks summer session.

2.8 REFUND POLICIES

Application Fee

The Application Fee (\$10) is not refundable.

Advance Registration Fee

The Advance Registration Fee (\$35) is not refundable.

Community Activities Fee

Freshmen or other new incoming students may apply for a full refund if written application is made to the Comptroller of Community Activities prior to registration for the Fall semester and if one of the following circumstances obtains; withdrawal by the College of the offer of admission; induction into the Armed Forces; illness certified by a physician as preventing enrollment. A partial refund (\$30) is granted if written application is made prior to June 1 for the Fall semester and if reasons other than those specified above determine the student's decision not to enroll.

A student who has completed at least one semester at the College and who after making advance payment of his Community Activities Fee for a year decides not to return is entitled to a full refund if his written request is received by the Comptroller

of Community Activities by September 1; he is entitled to a refund of \$30 for the second semester if the written request is received prior to registration for the second semester.

A student who has been suspended, or who has been dismissed for academic reasons will not be given a refund for the semester involved.

If a student voluntarily withdraws during the first half of the first semester he may receive a refund of half of the first semester fee and the entire second semester fee, a total of \$45.00. If he withdraws during the first half of the second semester, he may receive a refund of \$15.00, or half of the second semester fee. In either case, written application for refund must be received by the Comptroller before the end of the semester during which he withdraws.

Other Fee Refunds

Refund policies for fees not specifically covered in the preceding statements are as follows:

No refunds are made to students who are suspended, dismissed, or who withdraw from the College voluntarily. No refunds are made for the \$50.00 Housing deposit when housing contracts are broken on voluntary withdrawals from college.

In case of personal illness certified to by an attending physician, or in case of other reasons which may be approved by the Board of Trustees, refunds of housing and contingent fees are prorated and the unused portion subject to refund.

Notice of Withdrawal

In case of withdrawal, any refunds which are due are computed from the date when notice of official withdrawal is received at the Business Office.

2.9 BOOKS AND SUPPLIES

Books and supplies are estimated at \$75 for each semester. Students may secure books and supplies at the College Store. This store is operated on a cash basis.

3. STUDENT LIFE AND SERVICES

3.01 INTRODUCTION

It is desirable for each student to become involved in extra-curricular organizations and residence hall programs; these provide opportunities to learn and grow as a human being within an atmosphere of a living-learning center. Residence hall programming is intended as a framework for emotional, social, academic, and personal development; the programs involve dining service, social gatherings, cultural events, discussion groups, athletics, judicial proceedings, and a variety of student organizations.

The commuting student is urged to work out a travel schedule which permits him to spend as much time as possible on campus and to participate in activities.

The educational value of these services depends upon the effort and involvement of each student, whether resident or commuter.

3.02 COLLEGE POLICY

Individual rights and freedoms will be respected within the context of the educational mission. No community, however, can survive when extreme pressure for undirected change or unyielding resistance to necessary change produces an irreconcilable paralysis. Disruption is easy, but unnecessary disruption fosters an atmosphere of uneasiness, dissatisfaction, and stagnation. Mutual respect for both reason and reasonableness leads to constructive action.

Students are responsible for the rules, policies, and regulations as stated in the Catalogue, Pilot (Student handbook), and the Residence Hall Manuals. The Bloomsburg State College Joint Statements on Rights, Freedoms and Responsibilities of Students has been acknowledged as a guiding principle in the normal operation of the College.

3.03 STUDENT FINANCIAL AID

Financial aid available includes loans, part-time employment, scholarships and grants. The Federal and Commonwealth governments fund most of the programs.

Federal programs include College Work-Study, National Direct Student Loans, the Supplemental Educational Opportunity Grants, and the Basic Educational Opportunity Grants.

Commonwealth programs include the Pennsylvania State Student Employment, the State Guaranty Loans (with Federal subsidy on interest payment for certain income levels), and the Pennsylvania State Grant Program.

The State Guaranty Loans and the State Grants are administered by the Pennsylvania Higher Education Assistance Agency (PHEAA). Information may be obtained from counsellors in high schools or from PHEAA regional representatives. To be eligible for payment for summer school attendance, a student with a PHEAA grant must have earned 12 semester hours during the summer grading period; this requires a full six semester hour load in each of the two six-weeks terms of the grading period.

Limited financial assistance is available through the Bloomsburg State College Alumni Association Loan Program and the Bloomsburg State College Scholarships.

Interest-free emergency student loans of \$25 or less for a maximum of 30 days are available. Application is made at the Financial Aid Office.

Students who wish to take advantage of financial assistance must file a Parent's Confidential Statement with the College through the College Scholarship Service, Box 176, Princeton, New Jersey 08540. High school counsellors can help students find information concerning this statement.

Further information concerning financial aid opportunities may be obtained from the Director of Financial Aid at Bloomsburg State College.

3.04 STUDENT HOUSING

General Rules

The College reserves the right to assign rooms and roommates in residence halls; personal preferences are considered when possible.

Housing and food services are provided only on a combined basis for students living in residence halls. Housing and food service contracts are binding until the end of the academic year and may not be transferred or assigned.

Freshmen men and women are required to reside on campus or commute from home unless extenuating circumstances exist. Housing on campus is optional for other students.

Transfer students may indicate housing preferences; however, on-campus housing is not guaranteed. Transfer students who wish to live on campus should write the Director of Housing upon acceptance.



Residence Halls

The Residence Halls are described in Section 1.5, Buildings.

Details of rules and regulations are printed in the *Pilot* and in the residence hall manuals.

Off-Campus Housing:

Students who reside off-campus bear a dual responsibility as citizens of the Town of Bloomsburg and as members of the college community. The College cannot provide sanctuary from the law nor can it be indifferent to its reputation in the community.

Off-campus residences are subject to the safety requirements of the State Department of Labor and Industry and the provisions of the town building code.

The College does not supervise the health, safety, living standards or contractual agreements of students living off-campus, but the Director of Housing will provide information and advice to students who wish more information about state and local health and safety regulations, the Building Code, fire safety, leases, and tenant/landlord rights and responsibilities. The services of the Director of Housing are also available to off-campus students who need help in conducting pre-occupancy inspections, understanding the contents of leases, or registering complaints. Directories of off-campus residences in the town of Bloomsburg are available in the Housing Office.

Off-campus students are advised to read their leases carefully and understand their terms and conditions completely before signing any documents. It is further suggested that off-campus residents obtain insurance to cover their personal property, as most landlords do not assume liability for loss, or damage to, the personal property of their tenants.

3.05 COMMUNITY GOVERNMENT ASSOCIATION

All full-time undergraduate students are members of the Association. Graduate students and full-time faculty members who have paid their Community Activities Fee are also members. College Council meetings are held on every second and fourth Monday at seven o'clock in the Multi-purpose room of the Kehr Union. The executive council, which consists of the officers and two council representatives, meets the first and third Monday of the month. The constitution is printed in the *Pilot*, the student handbook.

3.06 STUDENT ORGANIZATIONS AND ACTIVITIES

3.06.1 ORGANIZATIONS

Students are encouraged to take part in at least one extra-curricular activity per semester. The approved student organizations are:

Alpha Phi Omega	Man & Nature Club (M.A.N.)
Amateur Radio Club	Madrigal Singers
American Chemical Society	Maroon and Gold Band
American Society of Personnel	Mathematics Club
Administration	Music Educators National
Balalaika (Russian Club)	Conference
Biology Club	New Student Association
Bloomsburg Acrobatics Team	Omega Tau Epsilon (Circle K)
(BATS)	Orthodox Christian Fellowship
Bloomsburg Players	Outing Club
Bridge Club (Inactive)	Phi Beta Lambda (Business)
Cheerleaders	Philosophy Club
Chess Club	Psychology Association
Chi Alpha (Inactive)	Radio Station
College-Community Orchestra	Sailing Club
College Union Program Board	Ski Club
Columbia Association for Retarded	Society of Physics Students (AIP)
Children (C.A.R.C.)	Sociology Club
Concert Choir	Student's International Meditation
Council for Exceptional Children	Society
Die Detusche Ecke (German Club)	Student PSEA
Economics Club	Student Speech & Hearing
El Club Espanol (Spanish Club)	Association
Fellowship of Christian Athletes	Studio Band
Flying Club (inactive)	The Way, Biblical Research
Forensic Society	Third World Culture Society
Humanities Club	Veteran's Club
Husky Singers	Women's Choral Ensemble
International Relations Club	Women's Recreation Association
Inter-varsity Christian Fellowship	Wristlocketts
Judo and Karate Club	Young Democrats
Lambda Alpha Mu	Young Republicans
Le Cercle Francais (French Club)	

The following governing organizations serve large constituencies:

Association of Resident Men	Sophomore Class
Association of Women Students	Junior Class
College Union Governing Board	Senior Class
Community Government Association	Interfraternity Council
Commuters' Association	Intersorority Council
Freshman Class	

Additional information may be obtained from the Office of the Director of Student Activities and College Union in Kehr Union.

3.06.2 PUBLICATIONS

Students who are interested in journalism have an opportunity to join the staffs of the student publications and to take courses which lead to a Certificate in Journalism.

Through this activity, a student can contribute significantly to campus life and at the same time gain valuable experience for future work in either commercial or school journalism.

Requirements for the Certificate in Journalism are given in Chapter 7 (see index).

CAMPUS VOICE

The college paper, published weekly, is regarded as the official student voice on campus. It is funded by the CGA budget and distributed free to the college community.

OBITER

This is the college annual pictorial publication of the activities of the past year. It is funded by the CGA and is distributed free to members of the Senior class. Other members of the college community may purchase copies.

OLYMPIAN

The annual publication provides an outlet for literary expression in the fields of poetry and prose.

PILOT

The official student handbook is edited by students under the supervision of the Vice President for Student Life. It contains essential information about student life and services.

TODAY

A daily publication from the Office of the Director of Student Activities and College Union announces activities and meetings, and carries news of organizations and departments.

3.06.3 HONOR AND PROFESSIONAL FRATERNITIES

National honor and professional fraternities foster educational ideas through scholarship, social activities, and moral development. Campus chapters with dates of organization are:

Alpha Phi Gamma (Journalism)
 Alpha Psi Omega (Coeducational Honorary Dramatic Fraternity) 1928
 Gamma Theta Upsilon (Coeducational Geography Fraternity) 1931
 Delta Mu Delta (Proposed) (Business Honor Society)
 Delta Phi Alpha (Coeducational Honor Society in German) 1967
 Gamma Theta Upsilon (International Geographical Honor Fraternity)
 Kappa Delta Pi (Coeducational Honor Society in Education) 1931
 Kappa Kappa Psi (National Honorary Band Fraternity) 1971
 Kappa Mu Epsilon (National Honorary Mathematics Society) 1974
 Phi Sigma Pi (Professional Honorary Fraternity for Men) 1930
 Omicron Delta Epsilon (Coeducational International Honor Society in Economics) 1971
 Phi Alpha Theta (National History Honor Society)
 Pi Kappa Delta (Coeducational Debate Fraternity) 1963
 Pi Omega Pi (National Business Teacher Education Honor Society) 1935
 Pi Sigma Pi (National Honor Fraternity)
 Psi Chi (National Honor Society for Psychology) 1970
 Sigma Alpha Eta (Honor Speech and Hearing Fraternity) 1965
 Sigma Tau Delta (Coeducational English Fraternity) 1965
 Sigma Pi Sigma (National Physics Honor Society) 1970
 Tau Beta Sigma (National Honorary Band Sorority) 1971

3.06.4 SOCIAL FRATERNITIES AND SORORITIES

The Inter-Fraternity Council (IFC) serves as the governing body of the seven social fraternities, and co-ordinates rushing, pledging, and programming. The fraternities, with dates of organization, are:

Sigma Iota Omega	1964	
Delta Omega Chi	1965	
Zeta Psi	1966	national November 1969
Phi Sigma Xi	1966	
Delta Pi	1967	
Lambda Chi Alpha	1967	national September 1970
Beta Sigma Delta	1966	

The Inter-Sorority Council (ISC) is composed of representatives of the six social sororities. The Council co-ordinates the rushing and pledging activities and endeavors to enhance friendship and social relations between sororities and individual woman. The group consists of:

Delta Epsilon Beta	1966	
Sigma Sigma Sigma	1967	national November 1971
Tau Sigma Pi	1967	
Chi Sigma Rho	1967	
Theta Tau Omega	1968	
Phi Iota Chi	1974	



3.06.5 SERVICE FRATERNITIES AND SORORITIES

These organizations are dedicated to providing service to the campus and community-at-large. Alpha Phi Omega (1963) and Omega Tau Epsilon are open to any second-semester freshman male with a 2.0 or higher average. Lambda Alpha Mu (1964) is open to any second-semester freshman woman with a 2.0 or higher cumulative average.

3.06.6 KEHR COLLEGE UNION

The Kehr College Union contains the following facilities: Ground Floor—bank, games area, bowling alley, post office, formal lounge, television rooms, and locker rooms; First Floor—snack bar, multipurpose rooms, health center, information desk, duplicating room, typing room, and administrative offices; Second Floor—offices for student organizations, student publications' offices, radio station, study lounge and/or coffee house, conference rooms, and listening room.

The Program Board plans the activities held in the Union; the College Union Governing Board authorizes policies and procedures for the use of the building.

3.07 SERVICES

Dining Room

The William W. Scranton Commons contains four dining rooms. Food services are furnished by a professional food service contractor.

Off-campus students may apply to purchase meal tickets at the Office of Campus Services.

The transfer, misuse, or falsification of a meal ticket is reason for legal action.

Members of the College community may eat in the College Commons at published transient rates. (See Section 2.6.)

Group meals are available to campus organizations; these may be arranged through the Office of Campus Services, subject to approval by the Business manager, 48 hours in advance of the event. Banquets and parties for outside groups must be reserved by the same procedure 30 days in advance.

There is a Snack Bar in the Kehr Union Building which serves snacks and light meals to students and members of the College community.

College Health Center

The College Health Center is located on the second floor of Kehr Union. Students seeking medical attention should report to the Health Center, which is open from 7 a.m. to 11:30 p.m., Monday through Friday. When the Health Center is closed, students living on campus should report to the resident dean but students living off campus may report directly to the Hospital Dispensary.

The Health Center is staffed by registered nurses, and serves as a walk-in clinic without cost to the student. Physicians' appointments may be made by nurses on duty at the request of the student. Physicians' fees and other medical expenses are the responsibility of the student or parent/guardian.

A full-time physical therapist is on duty in Nelson Field House; his main duty is to treat athletic injuries.

Ambulance Coverage

Ambulance service paid for by the Community Government Association is available to students of the College. Students may benefit from this service while living on campus, in off-campus housing, or if an accident occurs within a reasonable distance of the College. See the *Pilot* for instructions for calling an ambulance.

Student Insurance

An accident and sickness insurance plan which covers physicians' fees, medicines (limit \$25 per illness), and hospitalization up to the limits of the policy is available to students. The policy is in force 24 hours a day, 12 months a year, anywhere. The plan is available to both undergraduate and graduate students on a voluntary basis at a minimal cost. Further details may be obtained from a brochure available in the Office of Campus Services.

Athletic Insurance

All students participating in intercollegiate sports have insurance coverage up to \$10,000 paid for by the College. Athletic insurance covers injuries arising while practicing for, playing, and traveling as a member of an athletic team but does not cover injuries sustained in intramural sports or other injuries or illnesses.

Counseling

The Counseling Center makes available the services of five professionally trained counselors. Services of the center are available to any regularly enrolled student with problems of educational, vocational, personal, social, or emotional concern.

Students should ask for help without hesitation when a problem adversely affects their education.

The Counseling Center is located on the top floor of the Benjamin Franklin Building.

Banking

The Community Activities Office, located in the College Union, is prepared to accept deposits of cash for students and to provide for withdrawals at convenient times. Personal checks up to \$100.00 may be cashed at the bank. Hours are 10:30 a.m. to 4:30 p.m.

College Store

The College Store sells books and supplies needed during the year; it is open from 8:30 a.m. to 5:00 p.m. Monday through Friday and from 8:30 a.m. until noon on Saturday.

College Post Office

Mail is delivered to campus residence halls once daily, Monday through Friday. A central post office in Kehr Union provides combination boxes for off-campus students. Stamps are available by machine at the service window which is open from 8 a.m. to 4:30 p.m., Monday through Friday.

The Arts Council

The Arts Council is supported by the Community Government Association. The Council consists of eight members chosen from the fields of music, literature, art and theatre, with equal membership of students and faculty, and four additional members chosen equally from the students and faculty at large.

Throughout the college year, the Community Government Association through the Arts Council sponsors programs in the performing arts, lectures, artists-in-residence, "cultural caravans", and an International Film Series. These events are without charge to members of the College Community who contribute to the Activities Fund. A brochure listing the events for the year is published each fall. The Community Government Association also contributes to the Bloomsburg Civic Music Association and in return receives a block of tickets to this Performing Arts Subscription Series. Mr. George E. Stetson serves as Director of Cultural Affairs.

Haas Gallery of Art

Works of art are exhibited throughout the year in the Haas Gallery under the direction of the Department of Art. Exhibitions are held monthly and a special exhibition of student work is held annually in the Spring.

Permanent Art Collection

The department of art maintains a permanent art collection with works displayed throughout the campus.

Speech, Hearing and Language Clinic

This Clinic, located in Navy Hall, provides a number of services to students, faculty, staff and total community. Evaluative services are available in speech, voice, language, hearing, hearing aid evaluation, and educational-psychological services. Therapeutic services offered are speech and language therapy, auditory training, speech reading, educational therapy, and parent counseling. Services of the Clinic are free to Bloomsburg State College students, faculty and staff.

Career Development and Placement Center

The Career Development and Placement Center offers career counseling and job placement services for students seeking employment or continuing their education.

Vocational counseling is available to undergraduates. The career library contains reference materials on occupations and educational programs. Records are kept for graduating seniors and alumni. The Center collects, organizes and distributes materials from school districts and companies, lists job vacancies, and acts as a liaison between registrants and prospective employers.

Student files maintained in the Center consist of personal and faculty recommendations, personal data, and for students in the education curricula, student teaching records. Credentials are provided to prospective employers without charge.

The Center also offers a Career Development Course for undergraduates who would like extra assistance in understanding the process of career choice.

Alumni are invited to use the services of the placement center. The services are available through credentials, interviews, and vacancy lists.

Communications relating to the center should be addressed to the Director of Career Development and Placement Center.

Veteran's Office

An office for veterans is maintained in Benjamin Franklin Building, with a full-time coordinator whose duty it is to assist veterans in personal problems, especially those related to housing, employment, health, recreation, vocational and technical training and financial assistance, and to provide liaison with other administrative offices. The Office of Veteran's Affairs is under the direction of the Office of Campus Services.

Required reports to the Veteran's Administration are sent from the Registrar's Office. These reports include exact days of attendance, the number of credits scheduled, whether the student is full-time or part-time, the student's curriculum, the degree sought and an accounting of credits accepted in transfer from other institutions.



3.08 QUEST

A program of outdoor pursuits in education is being developed under the title QUEST. Its activities aim to encourage characteristics such as responsibility, leadership, self-confidence, trust, loyalty, initiative, self-discipline, and sensitivity through personal experiences in field trips, field study, and certain types of experiential education away from the campus. Certain of the experiences may be designed to permit cooperating departments to offer academic credit to students who participate. Participation is not confined to college students, but may include faculty and other individuals from a wide range of ages.

3.09 ATHLETICS, INTRAMURALS, RECREATION

The College is a member of the National Collegiate Athletic Association, The Pennsylvania State College Conference, and Eastern College Athletic Conference.

The intercollegiate program includes baseball, basketball, football, golf, swimming, tennis, track, wrestling, cross-country for men; basketball, field hockey, swimming and tennis for women.

Intramural sports for men include: bowling, archery, baseball, football, swimming, tennis, track, chess, cross-country, horseshoes, soccer, water polo, weight training, softball, basketball, table tennis, volleyball, wrestling, and gymnastics.

Intramural sports open to all women students are planned to promote wide participation intended to foster a spirit of sportsmanship. Activities include powderpuff football, volleyball, cageball, basketball, teniquoit, badminton, shuffleboard, gymnastics, table tennis, softball, archery, horseshoes, fencing and riflery.

Athletic facilities are made available for recreational use by students when not occupied for instruction, intercollegiate athletics or intramurals.

3.10 AUTOMOBILE REGISTRATION

Eligible personnel of the college desiring to operate and/or park a motor vehicle on the campus of Bloomsburg State College for the purpose of utilizing college facilities are required to register such vehicles with the college and to obtain parking decals within 24 hours after arrival on the campus. Violations of this provision carry a penalty of \$5.00. There is no cost for decals.

During the academic year, Seniors, Juniors, Non-Resident students, veterans who qualify under the G.I. Bill, students over

21 years of age, graduate students, evening division students, faculty members and staff personnel must register any motor vehicle which they drive on the campus of Bloomsburg State College. Freshmen and sophomores living on campus are not eligible to register a car unless given special permission.

During the summer sessions, any student may register a motor vehicle except "Summer Freshmen."

PHEAA restricts a student recipient of a grant from possessing an automobile while attending school, unless that student is a commuter or has been granted permission by the PHEAA office. A student found guilty of violating this regulation will be required to refund the grant.

Moving violations such as failing to obey stop signs, driving against traffic on a one-way street, reckless driving, and driving too fast for conditions are chargeable under the Pennsylvania State Motor Vehicle Code.



4. ADMISSION AND READMISSION

4.01 INSTRUCTIONS FOR CORRESPONDENCE

Correspondence concerning admission and documents which pertain to admission should be addressed to:

Dean of Admissions
Bloomsburg State College
Bloomsburg, Pa. 17815

4.02 CRITERIA FOR EVALUATION

Admission to Bloomsburg State College is determined by the applicant's academic and personal qualifications. Decisions are reached without regard to race, color, creed, or national origin.

Applicants other than those eligible under Section 4.05 must be graduates of or seniors in accredited secondary schools or must have secondary school equivalency as determined by the Credentials Evaluation Division of the Pennsylvania Department of Education.

Acceptance is determined by the Dean of Admissions upon evaluation of secondary school preparation, achievement, scores on the Scholastic Aptitude Test, personal characteristics, and institutional capacity. In addition, the results of a personal interview with the nursing faculty are reviewed for acceptance to the Nursing Degree Program.

Acceptances are tentative if based on evaluation of transcripts which show work in progress; final action is taken after complete transcripts have been received and evaluated.

4.03 APPLICATION PROCEDURES

Application materials and instructions for application may be secured by writing the Dean of Admissions.

To be a candidate for admission, one must complete and submit an official application to the Office of Admissions. The applicant is responsible for requesting the proper official of his secondary school to submit a transcript and personal evaluation to the Dean of Admissions.

The non-refundable application fee of ten dollars must be paid prior to consideration of the application.

4.04 ENTRANCE TEST

Applicants must have on file scores of the Scholastic Aptitude Test of the College Entrance Examination Board. It is the responsibility of applicants to arrange for the test and to request the forwarding of the scores directly from the Educational Testing Service. A photostatic copy of the high school test report on an official high school transcript is also acceptable. No other test scores will be substituted.

4.05 EARLY ADMISSION

Outstanding high school students may be considered for admission upon completion of grade 11. In addition to strong achievement and high aptitude, applicants for early admission must have the unqualified endorsement of the high school to receive consideration. College credit earned may apply toward the requirements for the high school diploma.

4.06 TRANSFER STUDENTS

An applicant who has ever been enrolled, or who at the time of application is enrolled, in another college or university is a transfer applicant regardless of whether or not credit was earned.

The information supplied in section 4.02, Criteria for Evaluation, and 4.03, Application Procedures, applies to transfer applicants. American College Test results may be submitted by a transfer applicant instead of the Scholastic Aptitude Test results, except that test results are not required from applicants who have successfully completed 30 or more semester hours of college credit. Transfer applicants must request each college attended to send an official transcript, and the last college attended to send a clearance form, to the Dean of Admissions.

In order for a transfer student to be considered for admission, he must be certified as in good standing academically and otherwise in the college last attended and must have a quality point average of 2.0 or better on a 4.0 system for all courses in which passing and/or failing grades were recorded.

4.07 READMISSION OF FORMER STUDENTS

Students who, having been formally admitted to degree study and attended Bloomsburg State College, withdraw for any academic semester, regardless of the reason, must apply for re-admission if they wish to re-enter.

Readmitted students are responsible for the graduation requirements and academic policies which exist at the time of re-entrance.

The Dean of Admissions may require an applicant for re-admission to file a letter containing such supplementary information as is needed for proper consideration.

Students under academic dismissal are ineligible for consideration for readmission for one calendar year; they should present evidence of successful achievement at another college or university as part of any application for readmission.

The grade and credit-entries recorded prior to readmission of a student under academic dismissal do not enter into subsequent computations of the quality point average, but the previous credit is included in his/her cumulative credit. A student may invoke this provision only once.

4.08 LEAVE OF ABSENCE

A student may request a leave of absence for a specified period by applying at the Office of Admissions. The leave is granted at the end of the semester provided the student is then in Academic Good Standing.

A student on leave of absence is assured his place in the semester designated for his return provided he fulfills the instructions that are part of the leave of absence agreement and submits advance registration and Community Activities Fee at the time designated by the Dean of Admissions.

4.09 HEALTH RECORD

An applicant who is offered admission must submit a medical examination report from his physician prior to enrollment. The appropriate medical examination report form is forwarded to the applicant upon receipt of advanced fees.

Final permission to enroll is contingent upon a favorable review of the medical report by the College Physician.

4.10 CAMPUS VISITS

A personal interview is not required for admissions consideration except for the nursing curriculum; if it is deemed desirable, however, an appointment will be made for the applicant by the Dean of Admissions.

A number of campus visitation days are held during the academic year. Visitation days consist of a general meeting with Admissions personnel, students, and Administrative personnel—including a question-answer session—a tour of the campus, lunch,

and academic department meetings. Specific information and dates are available upon request from the Dean of Admissions.

4.11 ADVANCED PLACEMENT

A student may receive a maximum total of 30 semester hours of credit by examination for successful completion of institutional examinations and/or approved external examinations. The college recognizes two external examination programs: the College Level Examination Program (CLEP) and the Advanced Placement Program of the College Entrance Examination Board.

The minimum score for awarding credit for general CLEP examinations is the 50th percentile of the Sophomore national norms. Credit is awarded for the subject CLEP examinations for achievement at or above the mean score achieved by students in the national norm sample who earned the grade of "C" in a regular college course in the subject. Minimum scores for awarding credit and the amount of credit granted can be secured by writing the Dean of Admissions.

A score of 5 or 4 on an Advanced Placement examination exempts a student from the introductory course in the tested area and gives credit. A score of 3 exempts a student, without credit, from the introductory course. Advanced placement is not granted for grades of 2 or 1.

Advanced placement may be granted in English Composition after consideration of verbal standardized test results and high school achievement.

4.12 ADVANCED STANDING FOR MILITARY SERVICE EDUCATIONAL EXPERIENCES

The recommendations of the American Council on Education as stated in its Guide to Evaluation are followed. The applicability of such credit to the requirements of the student's curriculum is determined by recommendation of the dean of the school and confirmation by the Vice-President for Academic Affairs. USAFI courses validated through college-level examinations are subject to the provisions for acceptance of correspondence courses.

4.13 INTERNATIONAL STUDENTS

Residents of foreign countries should initiate their application well in advance of the semester they plan to enroll. Special application forms are required and may be obtained by writing to the Dean of Admissions. Students whose native language is

other than English are required to submit the results of the Test of English as a Foreign Language (TOEFL) Examination administered by the Educational Testing Service, Princeton, New Jersey 08540. Certificates of educational training should be accompanied by certified translations if they are presented in a language other than English. Brief course descriptions of subjects successfully completed should be included with credentials.

4.14 CENTER FOR ACADEMIC DEVELOPMENT

The goal of the Program of the Center for Academic Development is to equalize educational opportunity for students regardless of ethnic background or economic status.

Any individual with a high school diploma or certificate of equivalency is eligible to apply for admission to the Program. Non-traditional criteria are applied in estimating potential of applicants when it appears that the environmental background may have adversely affected grades and/or standardized test scores.

Opportunities for financial aid are described in a brochure which may be secured from the Office of Financial Aid. (See Section 3.03 of this catalogue.)

Students in the Program of the Center are eligible for tutoring and for special counseling for academic, financial and social problems.

Inquiries should be sent to the Director of the Educational Opportunity Program or to the Dean of Admissions.



5. ACADEMIC POLICIES AND PRACTICES

Academic policies and practices are subject to change; the policies of this chapter are those authorized as of January 1, 1976. If there are subsequent changes which are effective for 1976-78, insofar as possible these will be announced in the Pilot; changes made after publication of the Pilot are announced in the Maroon and Gold.

5.01 REGISTRATION POLICIES AND PRACTICES

Student Responsibility

It is the responsibility of the student to know and observe the academic policies and regulations of the College, to confine registration to courses for which the prerequisites have been satisfied and to meet the requirements for graduation.

In case of changes by the College in graduation or curriculum requirements, a full-time student who attends without interruption may choose to satisfy either the requirements as they existed at the time of entrance or the new requirements; in the latter case, the student is responsible for the requirements *in toto*. A student who withdraws from the College for one or more semesters must apply for readmission. A readmitted student is governed in this matter by the rules for readmission (see Section 4.06). A part-time student must apply to the Vice-President for Academic Affairs for permission to be graduated under the original requirements.

Academic Advisement

Entering students who upon application for admission indicated their preferred curriculum are assigned to faculty advisers who specialize in advisement in these areas. Assignments to advisers are made by the Coordinator of Academic Advisement with advice of department chairpersons and deans.

Applicants for admission who are undecided about their curriculum should state *undecided* on the application for admission instead of specifying a curriculum.

Students with questions or problems should seek assistance in the Office of Academic Advisement.

Change of Schedule

A student may change his/her semester schedule prior to the close of the fifth day of classes of the semester. Application for change is made to the registrar on a form which may be secured from the offices of the deans or registrar. The consent of the adviser is not prerequisite to a change, but the student is responsible for informing the adviser of the change. Changes are subject to available space in classes to which the student proposes to transfer. Students may attend classes in accordance with an amended schedule only after certification by the Registrar's Office that the change has been executed officially.

Transfer of Curriculum

A student who wishes to transfer from one curriculum to another must file a request in the Academic Advisement Office. The filing of this request must be completed before the end of the semester preceding the proposed transfer, preferably before the pre-scheduling period.

Permission to enter the new curriculum may require approval of the dean of the school in which it is offered; in this case, approval will depend on available space and may depend on recommendations from advisers and counselors.

Withdrawal from a Course

A student is permitted to withdraw from a course at any time prior to the last week of classes for the semester, in accordance with the following procedures and regulations:

A withdrawal application card is secured from the Registrar's Office. The student has withdrawn when the completed card has been filed with the Registrar.

The grade upon withdrawal is determined by the following policy: If the date of withdrawal is prior to the close of the fifth day of classes following the date established as the end of the first half of the semester, the grade of W is reported. If a student withdraws subsequent to that date, the grade of WP is reported if the student is currently passing on the withdrawal date as certified by the Registrar, with the grade of WF required if the student is failing the course. In case a student had been absent for a prolonged period prior to the withdrawal date, with the absence reliably confirmed as due to causes beyond his/her control, the Vice President for Academic Affairs, upon request of the student, will direct the instructor to make the grade retroactive to the first day of absence due to this cause rather than to the date of withdrawal.

If a student discontinues attending class without completing official withdrawal, the grade of E is reported. Absence from the final examination without confirmation that it was caused by circumstances beyond the student's control is regarded as discontinuing attendance without official withdrawal.

Withdrawal from the College

A student may withdraw from the College by securing an official withdrawal form from the counseling center and completing and filing it as directed. The withdrawal process includes the clearing of all financial obligations, an exit interview with the director of Financial Aid, and the return of the ID card and meal ticket. Grades are given in accordance with the policy stated under "Withdrawal from a Course." An individual who discontinues attendance without completing the official withdrawal process and clearing of all obligations to the college waives the right to a transcript and is denied future readmission.

Policies which cover reimbursements are stated in the chapter on Fees.

Pass-Fail Registration and Rules

After attaining sophomore standing, a student may elect courses on a Pass-Fail basis in accordance with the following rules:

A maximum of four courses (not more than 13 semester hours in total) may be included as part of the minimum graduation requirement of 128 semester hours.

The courses must be electives in disciplines of the arts and sciences beyond the requirements of the student's specialization. Specialization includes a major and any courses required as concomitants of the major. Suitable courses outside the specialization taken on Pass-Fail basis may be applied toward the General Education requirements. (See Chapter 6.)

No more than two courses may be taken on this plan in any semester or summer term.

The instructor is not informed that the course is being taken on a pass-fail basis; grades of A, B, C, D, or E are translated later into grades of P or F, with the grade of P recorded for a grade of D or higher and the grade F recorded for E.

The grades P and F do not enter into the computation of a quality point average.

If, subsequent to completion of a course on a Pass-Fail basis, the student should change major to one in which the instructor's original grade is required, the record is revised accordingly.

A student who has received a grade of E in a course may not take it later on a Pass-Fail basis.

The student may not revoke a decision to take a course on a pass-fail basis.

Normal Load and Overload

The normal load of a student in any semester is sixteen semester hours. A student in Good Standing may register for a maximum of eighteen semester hours in a semester. An overload to a maximum of nineteen semester hours requires a Cumulative Quality Point Average of 3.0 and permission of the Dean of the School. (See Section 2.2 for overload fee.)

Repeating Courses

A student may repeat a maximum of four courses in which grades of E or WF have been recorded. A course previously passed may not be repeated.

Credit by Examination

A student may petition for the privilege of establishing credit in a course or courses listed in the catalogue through a comprehensive examination instead of through registration and class attendance. The following regulations govern this provision:

The student must present evidence of adequate experience with the course content either through experience other than college attendance or through independent study of the course content.

The student may not petition for an examination in a course audited, nor in a course from which a failing grade has been recorded.

The student must present evidence of equivalent experience if the course involves laboratory or studio work.

The student's petition must be approved in sequence by the department chairman, the dean of the school, and the Vice-President for Academic Affairs.

An examination committee must be appointed by the department chairman and approved by the dean of the school. Unless the course is an advanced course which is taught by only one member of the faculty, the examination committee must include at least two faculty members.

The examination must cover the course syllabus in a comprehensive manner. Suitable standardized examinations may be used. The examination must be written or, if oral, subject to transcription. Where skill, as in typewriting or shorthand, is a course requirement, the written and oral aspects must be supplemented by demonstration of skill. All papers must be filed in the department office for three years following graduation.

If the student passes the examination, the grade of "P" is assigned for the course. If he fails, no record is made. This course does not count in the student's normal quota of pass-fail courses.

The student must pay an examination fee comparable to that which would be paid by a part-time student who registers for the course.

Suitable adaptations of the above procedures may be used to validate transfer courses taken in non-accredited colleges. No fee is charged for examinations to validate such credit. Examinations may be based upon the syllabi of the courses taken in the previous institution or, in case the student wishes to establish equivalency with courses in this college, upon the syllabi of courses offered in this institution.

Auditing of Courses

A full-time student who is enrolled for less than seventeen semester hours of course work may, with consent of the Vice-President for Academic Affairs and subject to overload fees as stated in Section 2.2, register for one course as an auditor. If the registrant attends at least three-fourths of the regular class meetings the grade of V will be reported by the instructor and the course will be entered on the academic record without credit. No assignments are made to an auditor and no papers or examinations are accepted by the instructor for grading or record either during the period of enrollment or subsequent thereto. An auditor may not participate in laboratory or studio work if such work is part of the course audited.

A part-time student may register as an auditor, subject to the provision that when computing the fee paid by the student the course audited will be counted the same as if it were taken for credit. Individuals who are not enrolled as students may apply for audit privileges through the Director of Continuing Education; acceptance depends upon such factors as space in class and educational background.



Class Standing

A student has academic standing as a *freshman* until he/she has 32 semester hours of credit; as a *sophomore* from 32 to 63 semester hours, a *junior* from 64 to 95 semester hours, and a *senior* after 96 or more semester hours of credit. Transfer credit, if any, is included in these figures.

For purposes of social and housing privileges and regulations, the definitions of class standing are as follows: freshman, to and including 29 semester hours; sophomore, 30 to 59 semester hours; junior, 60 to 89 semester hours; senior, 90 or more semester hours or 6 semesters as a full-time student.

Definition of Full-Time Student

An individual who has registered for twelve or more semester hours is classified as a full-time student throughout the semester. One who registers for less than twelve semester hours is a part-time student. Where the word "student" appears in this catalogue without clarification either by word or context, "full-time student" is implied.

Progress Reports

At the mid-point of each semester a student may request from his/her instructor an estimate of the grade in the first half of the semester. This estimate is not made a part of the permanent record.

At the end of a semester or summer term, the final grade for each course is recorded on the student's permanent record; a copy of the semester grades is sent to the student at his/her home address or another address designated by the student.

5.02 CLASS ATTENDANCE

A student who is absent from a class for a reason which can be verified as urgent is entitled to a reasonable amount of assistance from the instructor in making up the work which was missed. This includes permission to make up an examination given the class during the absence and the late submitting of assignments that were due during the period of absence. Urgent reasons are defined as illness of the student, serious illness or death of a member of the student's family, and other events beyond the control of the student and of such nature as to prevent attendance. Students whose absences do not fall within this category may not claim the privilege of making up work. It is the responsibility of the student to provide verification of the reason for absence if requested by the instructor when applying for the privilege of making up work missed.

5.03 GRADES, QUALITY POINTS AND QUALITY POINT AVERAGES

Definition of Grades

The grades given at Bloomsburg State College are defined as follows:

C—Satisfactory. The work meets the instructor's concept of satisfactory performance and/or is equivalent in quality to that of the "average" or "typical" students.

A—Excellent or Distinguished or Superior. This is interpreted both as excellent when judged by the instructor's standards and superior when compared with the performance of the students graded "C".

B—Good. This is a measure which indicates work intermediate between that properly rated "C" and that rated "A".

D—Minimum Passing Grade. The student has met the instructor's minimum standards, but the quality of the work is lower than that graded "C".

E—Failure; No Credit. The student has not met the minimum standards. If the course is prerequisite to another course the student should not continue in the sequence.

W—Withdrawn prior to the end of the week following the announced mid-point of the semester.

WP—Withdrawn, passing. This grade is discussed more fully in paragraph on Withdrawal.

WF—Withdrawn, failing.

I—Incomplete. *This grade is given only when because of circumstances beyond his/her control the student has been unable to complete certain of the obligations of the course and when a plan exists and is understood by both instructor and student whereby the work which remained to be done may be completed and graded.* When the work has been completed, a permanent grade is submitted by the instructor to replace the grade of "I".

Unless specifically stated in a written plan filed in the Registrar's Office it is assumed that the work will be completed prior to the end of the next semester. If the plan is not fulfilled, the grade of "I" remains a part of the student's record (it is not subject to change at a later time). In the case of graduate students the grade of I is replaced by symbol N; this symbol remains permanently on the student's record.

P—Passed. This grade is recorded when a student takes a course on a Pass-Fail basis and does work which would lead to a grade of "D" or higher. The grade of P is also recorded when a course is passed by proficiency examination.

F—This grade is recorded when a student takes a course on a Pass-Fail basis and does work which would lead to a grade of “E”.

V—Audit. This grade is recorded when a student has registered as an auditor and attends the class for three-fourths or more of its regular meetings. The entire set of rules governing auditing of courses appears in Section 5.1.

R—Research in Progress. This grade is recorded when a research project is in progress but not yet completed.

Quality Points

Grades of A, B, C, D, E and WF have quality point values as follows:

Grade	Quality Points
A	4
B	3
C	2
D	1
E	0
WF	0

Quality Point Average

A number called the Quality Point Average (abbreviated QPA) is computed *from the record of courses taken at Bloomsburg State College* with grades of A, B, C, D, WF and E. The computation process is as follows:

- (1) Multiply the number of semester hours for each course by the number of quality points for the grade in the course, and add the products.
- (2) Divide the sum obtained in the first step by the total number of semester hours represented by the courses.

A “Semester QPA” is computed by including only the courses of a single semester. The “Cumulative QPA” is that computed by including all courses taken to date at Bloomsburg State College; if a course has been repeated, only the last grade entry is used in the computation. (See also Section 4.07.)

Change of Grade

After a grade has been reported to the Registrar’s office it may be changed only to correct a computational or clerical error. A recommendation for change of grade must be made in writing by the instructor and approved by the department chairperson and the Vice-President for Academic Affairs.

5.04 HONORS

The name of a student whose Semester QPA is 3.5 or higher is included in the Dean's List for that semester.

Graduation honors are recognized as follows: A student whose Cumulative Quality Point Average is 3.50 to 3.59 is graduated with Honors; 3.60 to 3.74, with High Honors; 3.75 to 4.00 with Highest Honors.

5.05 ACADEMIC GOOD STANDING

A student whose record at any final grading period meets the standard specified in this table is in Academic Good Standing. (There are three final grading periods, the Fall Semester, the Spring Semester, and the total summer terms.)

TOTAL NUMBER OF SEMESTER HOURS IN COURSES PASSED, INCLUDING GRADES OF "P" AND TRANSFER CREDIT	CUMULATIVE QUALITY POINT AVERAGE REQUIRED FOR GOOD STANDING
to and including 18 sem. hrs.	1.25 or higher
19-30 sem. hrs.	1.50 or higher
31-54 sem. hrs.	1.75 or higher
55 -	2.00 or higher

5.06 RETENTION POLICIES

Academic Probation

A student in one of the following categories is permitted to attend on Academic Probation for one additional final grading period (semester or summer):

- (a) an entering freshman whose Quality Point Average at the end of his first final grading period is at least 1.00 but less than 1.25;
- (b) a transfer student whose Quality Point Average at his first final grading period is less than, but within 0.25 of, that required for Good Standing;
- (c) a full-time student who has been in Good Standing continuously for at least two consecutive final grading periods immediately prior to a grading period in which his Cumulative Quality Point Average drops below, but within 0.1 of, that required for Good Standing.
- (d) a full-time freshman or transfer student who was in good standing at the end of the first grading period following entrance but whose Quality Point Average at the end of the second grading period is below but within 0.1 of that required for good standing.

The record of a student in any of these categories is marked "Academic Probation."

Final Grading Period is defined in Section 5.05.

Academic Dismissal

A student who at any final grading period is neither in Good Standing nor qualified to attend for a semester on academic probation is excluded from registration and his record is marked "Academic Dismissal."

A student under academic dismissal is ineligible to attend any courses offered by the College for a period of at least one calendar year. Readmission regulations are stated in Chapter 4.

Appeals

A student under academic dismissal may petition the Academic Review Board for reinstatement. If reinstatement is granted, the conditions pertaining thereto are stated, and the student's record is marked "*Reinstated*." If the student does not attain Good Standing by the end of the period granted by the conditions of reinstatement he is excluded from further registration and his record is again marked "Academic Dismissal."

Petitions to the Academic Review Board *must be in writing* and must be filed with the Vice-President for Academic Affairs within 48 hours of receipt of notification.

The Academic Review Board comprises the Deans of the Schools of Arts and Sciences, Professional Studies, and Business; a representative of the Vice-President for Student Life; the Director of the Counseling Center; the Director of Admissions; the Dean of Extended Programs; and the Registrar of the College. At the initiative of either the applicant or the Academic Review Board, the student's adviser will be invited to participate as a voting member in the consideration of his case.

In its evaluation of a petition for reinstatement, the Academic Review Board is charged to consider: the degree to which external factors beyond the student's control temporarily prevented optimum academic achievement; the likelihood that these or similar factors would not recur if reinstatement were granted; the likelihood that the student, if reinstated, can complete his/her curriculum successfully within a reasonable extension of the normal four-year period; an evaluation of the plan for attaining Good Standing proposed by the student as a part of his/her petition; and such other factors as may seem pertinent. Reinstatement is an expression of confidence on the part of the Board in the student's potential for successful completion of

his/her curriculum and his/her fulfillment of its purposes.

A student whose petition for reinstatement has been denied by the Academic Review Board may appeal the decision within 48 hours to a special panel consisting of the vice-presidents of the College, provided the dean of the school in which the student has been enrolled supports the appeal by certifying a judgment that it presents evidence concerning pertinent factors that either were not placed before the Board or were given insufficient attention. The appellant must petition in writing through the Vice-President for Academic Affairs; he/she may also be required to appear before the panel in person. All members of the panel must concur in any decision to reverse the Academic Review Board. *The decision of the panel is final.*

5.07 EVALUATION OF TRANSFER CREDITS

Evaluation of credit earned in other institutions is made by the dean of the school in which the student has chosen his curriculum, subject to confirmation by the Vice-President for Academic Affairs.

Acceptable courses must have been completed in an accredited college or university or in a recognized or accredited junior college or community college. Courses must be applicable to the student's curriculum either as substitutes for required courses or as electives; credit will be deleted if the student subsequently registers for courses which substantially duplicate the content of courses accepted for transfer.

A student is entitled to an opportunity to validate by examination a course presented for transfer when the substitution of transfer credit for a required course is in question because the course was taken in an unaccredited institution or because of uncertainty concerning the syllabus or standards of the course. When they are available, standardized examinations are used.

Correspondence courses are subject to acceptance to a total that does not exceed fifteen semester hours if taken from an accredited college or university and acceptable by that institution toward graduation in a baccalaureate degree curriculum.

Courses taken in another institution on a Pass-Fail basis are acceptable if they conform to the conditions for such grades at Bloomsburg State College.

A transfer student is issued an evaluation sheet which stipulates the requirements for graduation which remain to be met; this is subject to revision in the light of subsequent changes in the evaluation of the transcript.

Students of Bloomsburg State College may take courses in other accredited institutions and submit the credit for transfer, provided the courses have been approved in advance by the Vice-President for Academic Affairs.

(See Section 5.12 for limitations on credit transferred from junior colleges and similar institutions.)

5.08 CHEATING AND PLAGIARISM

Attempts by students to improve grades by cheating in tests and examinations or by plagiarism in papers submitted to the instructor are offenses subject to penalties which may be as severe as suspension or expulsion.

The instructor may assess penalties ranging from a privately administered reprimand to a grade of E in the course. If the offense appears to merit a more severe penalty, the instructor is responsible for initiating a request for formal consideration by the Student-Faculty Judiciary.

In order to avoid the appearance of plagiarism resulting from ignorance of the proper use of source materials, the student should study the conventions governing use of sources. Such information can be obtained from instructors or from handbooks found in the Library.

5.09 TESTING PROGRAMS

Each new student is required to take entrance classification tests during the orientation period. The results of the tests are used for advisement, counseling, research, and reports. No fee is charged for these tests.

A number of other tests are administered by the College; these are offered as a service to students who may need them for special purposes. Among the tests currently available are the National Teacher Examination, Admission Test for Graduate Students in Business, Graduate School Foreign Language Tests, Law School Admission Test, Test of English as a Foreign Language, Graduate Record Examination. Information concerning these and other tests may be obtained from the Office of Institutional Research.

5.10 RESIDENCE REQUIREMENT

At least 32 of the last 64 semester hours credited toward a baccalaureate degree must be taken in residence at Bloomsburg State College. Former students of the College who were certificated for teaching by completing two or three years of college work and who are candidates for the Bachelor of Science in Education degree, must complete at least one half of the remaining work for the degree in residence. Residence credit is given for courses taught on the Bloomsburg State College campus in a semester, a summer term, in evening or Saturday classes for teachers, and for off-campus student teaching.

5.11 GRADUATE COURSES IN SENIOR YEAR

Seniors who in their last semester of residence need fewer than fifteen semester hours of course work to satisfy their requirements for the baccalaureate degree may apply to the Dean of Graduate Studies for permission to supplement their undergraduate courses with graduate courses, providing the total of undergraduate and graduate courses will not exceed 16 semester hours. If permission is granted, credit in the graduate courses is held in reserve.

5.12 GRADUATION REQUIREMENTS

A candidate for graduation with a baccalaureate degree must have satisfied the residence requirements and completed all course requirements of one of the curricula. (See Section 5.01, Student Responsibility.)

The minimum credit requirement for a baccalaureate degree is 128 semester hours, with 40 semester hours or more in courses numbered 300 or higher.

The last 64 semester hours of the credit counted toward graduation must be in courses taken in four-year baccalaureate degree-granting college. (For the minimum residence requirements in this College, see Section 5.10).

Secondary majors in foreign languages must have satisfied the departmental examination requirement.

The Diploma Fee (\$5.00) must have been paid.

All financial obligations to the College (library fines, parking fines, any unpaid tuition or housing fees, loans, etc.) must have been cleared.

The candidate must have arranged an exit interview with the Director of Financial Aid.

5.13 SECOND BACCALAUREATE DEGREE

An individual who applies for a second baccalaureate degree must have completed the first degree at Bloomsburg State College or another college or university and must have added thereto at least 30 semester hours in undergraduate courses taken in residence during regular academic years and/or summer terms at Bloomsburg State College. All requirements for the curriculum in which the second degree is earned must have been satisfied and free elective credit must have been taken if necessary to complete the additional thirty semester hours. If a given course is required in both degree programs, it must not be repeated for the second degree.

6. UNDERGRADUATE CURRICULA: INTRODUCTION

6.1 CHOICE OF CURRICULUM

The undergraduate curricula are administered by three schools, the School of Arts and Sciences, The School of Professional Studies and the School of Business. The requirements of the curricula are stated in the chapters which deal with these schools.

A student must have committed himself to a curriculum and secured his admission thereto by the end of his sophomore year, except that a student who transfers to Bloomsburg State College with junior standing has a grace period of one semester.

Students who upon initial entrance into the College declare an interest in the School of Business are assigned at once to that school; other students are assigned initially to the School of Arts and Sciences, except that students who express interest in teacher education are tentatively assigned to the School of Professional Studies. Students may make a tentative choice of curriculum or may declare themselves undecided; if they have made a tentative choice this becomes one of the determinants for selection of courses during the period which precedes the final commitment, but *admission to courses of a curriculum does not bind the School or the College to official admission of the student to the curriculum in cases where admission is selective or restricted. In particular, admission to curricula in the School of Professional Studies is selective.*

6.2 CREDIT

Each curriculum which leads to a baccalaureate degree requires the successful completion of 128 semester hours of credit. A semester hour is defined as the credit for one weekly period of fifty minutes in lecture, discussion or recitation for one semester; in case a course requires laboratory, shop or studio experience, two or in some cases three periods are considered as equivalent to one period of lecture, discussion or recitation.

6.3 GENERAL EDUCATION REQUIREMENTS

All baccalaureate candidates who entered prior to June 1, 1976, are required to include in their program, sixty semester hours which conform to the following pattern:

A. Required Courses 7 or 10 semester hours

These courses consist of English Composition and Physical Education as follows:

English Composition: Depending upon the student's preparation as indicated by his entrance test scores, he must take either English 20.101 and 20.102 (six semester hours) or 20.103 (three semester hours).

Physical Education: This requirement totals four semester hours in activity courses to include swimming. Students who have passed the age of thirty should consult the chairman of the Department of Health, Physical Education and Athletics for modifications, if desired. Students who have served twelve months active duty in the armed services may apply for credit and exemption from this requirement. Beginning swimming is required of students who do not successfully pass a swimming proficiency test.

B. Restricted Electives 36 semester hours

This requirement is fulfilled by taking twelve semester hours in each of the following three groups of disciplines, with at least two of the disciplines of each group represented in the choice of courses:

Group I, Humanities: art, English, foreign languages, music, philosophy, speech.

Group II, Social Sciences: economics, geography, history, political science, psychology, sociology. (Education 60.101, 60.393, 60.394 and freshman and sophomore ROTC courses may also be used.)

Group III, Sciences and Mathematics: biology, chemistry, mathematics, physics, earth science.

The courses in the disciplines named in the three groups must be chosen from those designated as general education courses in the course descriptions.

C. Additional Electives

This requirement is fulfilled by electing courses sufficient in credit to complete the total of 60 semester hours in general education; these courses must be elected from designated general education courses in the three groups defined above.

Prescription of general education courses has been set at a minimum in order to give each student, with the help of an adviser, the opportunity to survey his previous background and choose new intellectual experiences that provide opportunity for optimum growth. This policy places important responsibility upon the student for discrimination in making decisions.

The General Education pattern is currently being revised, with the revision effective for students who enter after June 1, 1976. The revision will be published in a separate brochure.

If the student's chosen curriculum requires courses which are also designated as acceptable for general education distribution requirements, the student may elect to apply them toward both specialization and general education. The credit for such courses is counted only once in fulfilling the total graduation requirement.



7. SCHOOL OF ARTS AND SCIENCES

7.1 GENERAL INFORMATION

Degrees

The degrees, Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) are conferred for programs offered in the School of Arts and Sciences.

The aim of a program which leads to the degree, Bachelor of Arts, is to offer the student opportunity for a liberal education through study in both breadth and depth of disciplines in the humanities, the social sciences and the natural sciences and mathematics.

The aim of a program which leads to the Bachelor of Science degree is to offer opportunity for liberal education together with a specialization that may have the potential of application.

There are two patterns for the Bachelor of Arts degree, a pattern of emphasis upon a broad field and a pattern with a major in one of the academic disciplines.

7.2 PROGRAMS WITH MAJOR SPECIALIZATION (DEGREES B.A. and B.S.)

Requirements for the arts and sciences degrees are as follows:

The General Education requirements as given in Section 6.3 must be satisfied; the major requirements as stated at the beginning of the course descriptions for the discipline must be fulfilled; elective credit in disciplines of the humanities, social sciences and natural sciences and mathematics must be added to give minimum total credit of 128 semester hours. At least 40 semester hours of the total graduation requirement of 128 semester hours must be in courses numbered 300 or higher.

7.3 BROAD AREA PROGRAM FOR THE BACHELOR OF ARTS DEGREE

This program offers opportunity for a student to build his own curriculum with a minimum of restrictions. The student selects one of the three areas, Humanities, Social Sciences, and Natural Sciences and Mathematics for his emphasis; he takes the core courses prescribed for that area, fulfills the general education requirements, and elects the remainder of the work. At least 48 semester hours must be taken in the chosen area. It is required that prior to the close of his sophomore year he submit

for his adviser's endorsement a plan for the completion of his studies. At least 40 semester hours of the total graduation requirement of 128 semester hours must be in courses numbered 300 or higher. Courses outside the chosen area must be in the other two areas of the Arts and Sciences.

The core courses specified below are prescribed for students who enter prior to June, 1976. Revisions are being made to become effective for students who enter after that date.

Core Courses for the Broad Area Program in the Humanities:

English 20.206; any additional course in English literature;
Philosophy 28.301 or 28.302; Speech 25.208 or 25.321;
One course in art history; one course in music history.

Core Courses for the Broad Area Program in the Social Sciences:

Political Science 44.101, 161; Economics 40.211, 212;
Sociology 45.211 and one elective in sociology;
Anthropology 46.200; Psychology 48.101 and one elective in psychology;
History 42.111; 42.112 or 42.113;
Geography 41.101 or 41.102.

Core Courses for the Broad Area Program in the Natural Sciences and Mathematics:

One year of mathematics, preferably 50.125, 50.126;
One full year's work in each of two sciences.

7.4 PRE-PROFESSIONAL STUDY AND ADVISEMENT

A Committee on Pre-Professional Study in the School of Arts and Sciences offers special, supplementary advisement to students who hope to seek admission to professional schools of medicine, dentistry, veterinary medicine, optometry, pharmacy, occupational therapy and physical therapy.

Members of this committee are assigned to help pre-professional students to familiarize themselves with admission requirements of the professional schools, and to select college courses in harmony with these requirements. They also assist students in preparing applications for admission to professional schools.

Students who wish to undertake pre-professional study should indicate this interest on their application for admission to the College in order that an appropriate adviser may be assigned at the outset.



Pre-medicine, Pre-dentistry, Pre-veterinary Medicine, Pre-optometry

As a rule, professional schools in these areas do not specify an undergraduate major, but they do specify minimum essential courses, especially in the sciences and mathematics. These minimum requirements usually include courses in general chemistry, organic chemistry, mathematics, biology and physics. High standards of undergraduate scholarship are demanded for consideration.

Pharmacy, Occupational Therapy, Physical Therapy

Although requirements for admission to these schools vary, the student is advised to take one year of work in each of chemistry, mathematics and biology. A year of work in physics is sometimes required. The assistance of advisers from the Committee on Pre-professional Study should be sought.

Pre-Law

Students who wish to prepare to study law should familiarize themselves with the entrance requirements of one or more law schools. A pre-legal adviser who makes a continuing study of the requirements of such schools is in position to advise the student in his choice of courses: Law schools ordinarily do not prescribe a particular undergraduate major; consequently, any major which is of interest to the prospective law student is likely to be acceptable. The Broad Area Curriculum described in Section 7.2 also lends itself to the needs of a pre-legal student.

7.5 Course Descriptions

HEALTH AND PHYSICAL EDUCATION

COURSES

(Code 05)

Professors Conrad A. Bautz (Chairperson), Stephen M. Bresett, Jerry K. Medlock; Associate Professors Joan M. Auten, Rodrick Clark Boler, Russell E. Houk, Joanne E. McComb, Eli W. McLaughlin, Ronald E. Puhl, Henry C. Turberville, Jr., Mary E. Wray, Burton T. Reese; Assistant Professors Charles Chronister, Carl M. Hinkle, Betty Jane Rost, Roger B. Sanders, William J. Sproule; Instructor Mary Gardner.

05.102 VARSITY BASKETBALL 1 sem. hr.

05.103 VARSITY FIELD HOCKEY 1 sem. hr.

05.104 VARSITY FOOTBALL 1 sem. hr.

05.106 VARSITY SWIMMING AND DIVING 1 sem. hr.

05.107 VARSITY TENNIS 1 sem. hr.

05.108 VARSITY TRACK, FIELD, CROSS COUNTRY 1 sem. hr.

05.109 VARSITY WRESTLING 1 sem. hr.

05.149 AQUATICS (For Non-Swimmers) 1 sem. hr.

Provides opportunity to make the proper physical and mental adjustment to water; basic skills as provided by the American Red Cross with specific emphasis on becoming safe in, on, or about a body of water.

05.150 AQUATICS (Beginning) 1 sem. hr.

Same content as 05.149 but adapted to the previous skill.

05.151 AQUATICS (Intermediate) 1 sem. hr.

Preview of basic aquatic skills; advanced skills and swimming strokes with emphasis on form and efficiency; elementary rescues and aquatic games.

05.160 (098) HEALTH AND THE NATURE OF MAN 3 sem. hrs.

Specific health needs of college students and the world in which they will live.

05.214 FENCING 1 sem. hr.

05.219 TENNIS 1 sem. hr.

05.222 DANCING 1 sem. hr.

05.227	ARCHERY – VOLLEYBALL	1 sem. hr.
05.228	GYMNASTICS	1 sem. hr.
05.230	WEIGHT TRAINING AND FITNESS	1 sem. hr.
05.231	ARCHERY	1 sem. hr.
05.232	BOWLING (fee required)	1 sem. hr.
05.233	BADMINTON	1 sem. hr.
05.234	GOLF	1 sem. hr.
05.235	RIFLERY (fee required)	1 sem. hr.
05.236	VOLLEYBALL	1 sem. hr.
05.237	MODIFIED PHYSICAL EDUCATION	1 sem. hr.
	(for approved students only)	
05.238	HAND PADDLEBALL	1 sem. hr.
05.239	SQUARE DANCE	1 sem. hr.
05.240	SLIMNASTICS AND FITNESS	1 sem. hr.
05.241	JUDO – SELF DEFENSE	1 sem. hr.

NOTE: Activities courses are intended to develop knowledge, skill and appreciation. Primary emphasis is placed on activities possessing “life-time” recreational values. All are co-educational.

05.242 PHYSIOLOGICAL AND MEDICAL ASPECTS OF ATHLETIC COACHING 3 sem. hrs.

Basic anatomical and physiological factors affecting movement, endurance, strength, and conditioning in sports; equipment; training; care of injuries; safety problems; and medical research relating to athletics.

05.243	BACKPACKING	1 sem. hr.
05.244	ORIENTEERING	1 sem. hr.
05.245	CANOEING	1 sem. hr.
05.246	BEGINNING SKIN-SCUBA DIVING	1 sem. hr.
05.250	ADVANCED LIFE SAVING	2 sem. hrs.

Opportunity to attain American Red Cross Advanced Life Saving Certificate.

05.251 TECHNIQUES OF COACHING AND OFFICIATING BASEBALL 3 sem. hrs.

**05.252 TECHNIQUES OF COACHING AND
OFFICIATING BASKETBALL 3 sem. hrs.**

05.253 TECHNIQUES OF COACHING FOOTBALL 3 sem. hrs.

Advanced instruction and practice in offensive and defensive fundamentals for each position; organizational methods and coaching principles and officiating skills.

**05.256 TECHNIQUES OF COACHING AND
OFFICIATING CROSS COUNTRY,
TRACK AND FIELD 3 sem. hrs.**

**05.254 TECHNIQUE OF COACHING AND
OFFICIATING FIELD HOCKEY 3 sem. hrs.**

**05.257 TECHNIQUES OF COACHING AND
OFFICIATING WRESTLING 3 sem. hrs.**

**05.260 TECHNIQUES OF COACHING AND
OFFICIATING SWIMMING 3 sem. hrs.**

Techniques of coaching, swimming, diving and rule interpretations and duties of official.

05.270 EXERCISE AND YOU 2 sem. hrs.

The academic coverage involves study of appropriate physiological functions, exercise physiology, mechanical implications, fitness measurement, procedures, and practical application through programmed exercise.

**05.311 METHODS AND MATERIALS IN ELEMENTARY
SCHOOL PHYSICAL EDUCATION 3 sem. hrs.**

Provides principles and procedures to meet the needs and interests of elementary age children in the area of physical education. Not applicable to the HPE minor.

**05.320 HEALTH AND SAFETY IN THE ELEMENTARY
SCHOOL 3 sem. hrs.**

Provides students with health knowledge and training in the areas of elementary school environment and health appraisal techniques for teaching elementary school health, the elementary school health program, and safety education in the elementary school.

05.321 FIRST AID SAFETY 3 sem. hrs.

Designed for the elementary-secondary teacher who needs training in first aid and safety. Red Cross Standard, Advanced, and Instructor certification may be obtained.

05.325 ANALYSIS OF MOTOR MOVEMENT 2 sem. hrs.

To familiarize Area of Interest students with the ability to analyze various aspects of basic movements in physical activities.

05.331 RECREATIONAL EDUCATION 3 sem. hrs.

Discussion of, and practice in, recreation activities used in school and playground situations. Emphasis is placed on recreation planning, techniques of leadership, and worthy use of leisure time.

05.332 FOUNDATIONS OF LEISURE AND RECREATION3 sem. hrs.

Historical and philosophical impact of leisure on man. Critical examination of the concepts of recreation and park and conservation services in light of technological, economic, political and social change. Emphasis on recreation as a social institution in the urban environment.

05.333 SCHOOL CAMPING AND OUTDOOR EDUCATION 3 sem. hrs.

Designed to acquaint students with the scope of organized camping and the acquisition of and practices in the basic skills required of teachers involved in camping and outdoor education training. Field experiences.

05.334 RECREATION PROGRAM AND STAFF DEVELOPMENT 3 sem. hrs.

Delineation and analysis of the elements involved in the development and management of recreation programs; principles of program planning with emphasis on staff development and leadership processes.

05.350 WATER SAFETY INSTRUCTOR 2 sem. hrs.

Review of the nine basic swimming strokes and advanced life saving skills with an opportunity to analyze stroke mechanics, teaching methods and provisions, or the necessary knowledge required for satisfactory completion. Awarding of an American Red Cross Water Safety Instructor Certificate is based on final evaluation.

Prerequisite: A valid American Red Cross Advanced Life Saving Certificate, 17 years of age prior to starting date of course, sound physical condition, and a Red Cross Swimmer's Certificate or the ability to perform the swimmer course skills.

05.409 PRINCIPLES AND PROBLEMS OF SECONDARY SCHOOL ATHLETICS 3 sem. hrs.

The planning and promoting of athletic programs; history, organization, administration, business procedures, public relations, and formulations of policy.

05.411 ADAPTED PHYSICAL EDUCATION 3 sem. hrs.

Study and practice in techniques used by physical educators to recognize and meet problems of the handicapped.

05.420 TECHNIQUES IN HEALTH AND PHYSICAL EDUCATION FOR SPECIAL EDUCATION TEACHERS 3 sem. hrs.

Sound principles and procedures for meeting physical, emotional and social needs of the mentally retarded.

05.430 HEALTH EDUCATION IN THE PUBLIC SCHOOLS 3 sem. hrs.

Major problems which concern communities today: drugs, venereal disease, pollution, alcohol, and sexuality. Restricted to seniors and in-service teachers.

INTER-DISCIPLINARY STUDIES

Hans Gunther, Coordinator of Inter-disciplinary Studies.
Note: Inter-disciplinary courses listed in this section are planned by committees drawn from more than one department. The courses are taught by teams of faculty members and are responsible to the Coordinator of Inter-disciplinary Studies rather than to a department.

COURSES

(Code 09)

09.111 INTRODUCTION TO THE PEOPLES OF THE THIRD WORLD 3 sem. hrs.

The peoples of the Far and Middle East, Africa, and Latin America, their art, literature, philosophy, cultural geography, and history, sketching their importance in the world.

09.250 FRENCH HISTORY AND CULTURE I 3 sem. hrs.

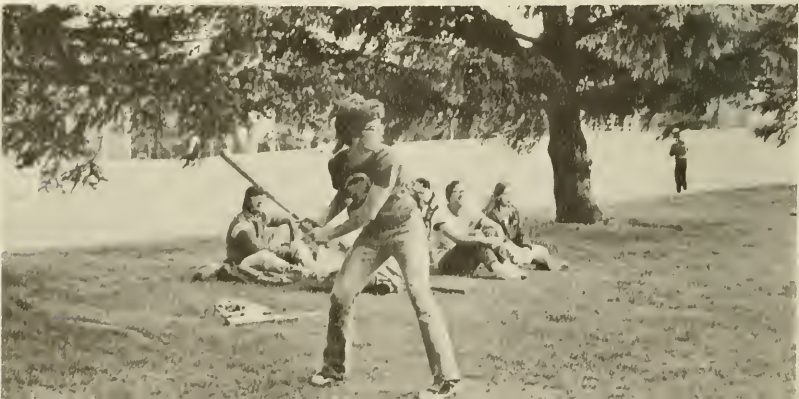
From the Gallo-Roman beginnings to the present; emphasis upon the social, cultural, economic, and political contributions of France to the shaping of Western Civilization.

09.251 FRENCH HISTORY AND CULTURE II 3 sem. hrs.

Transformation of France from the Old Regime into a modern nation; the interaction between social, cultural, economic, and political life in France and her importance in Western Civilization.

09.211 HISTORY OF SCIENTIFIC THOUGHT 3 sem. hrs.

Historical development of the natural sciences and mathematics; the nature of scientific and mathematical thought and methods; the characteristics of these disciplines and their significance to human progress.



GROUP I: HUMANITIES

FOREIGN LANGUAGES

Professors Charles Whitney Carpenter II, Ariadna Foureman, Eric W. Smithner, Alfred E. Tonolo; Associate Professors Blaise C. Delnis, Mary Lou John, Allen F. Murphy (Chairperson), George W. Neel, Christine T. Whitmer; Assistant Professor Ben C. Alter.

Placement Tests

Students who have studied a language elsewhere than at B.S.C. should consult the department Chairperson for appropriate placement. Placement tests may be given during the Freshmen Orientation period and the first week of classes. Advanced placement tests are offered upon demand.

Language Laboratory

Weekly laboratory sessions are required in all elementary and intermediate courses. Students are encouraged to make additional use of the language laboratory facilities on a voluntary basis.

Programs Abroad

Each summer, the Department offers study programs abroad. Language majors are encouraged to participate in one of these programs before graduating.

Arts and Sciences Majors

Majors are offered in French, German and Spanish. A major for the B.A. degree requires a minimum of 30 semester hours in the language in courses beyond 101, 102; if a student is exempt from any required courses, he takes additional advanced electives as substitutes.

It is recommended that students who take a major in one of the languages also elect related courses in fields such as a second foreign language, English, fine arts, history, philosophy, sociology, speech, theatre.

Secondary Education Majors

Requirements for the major for the B.S. in Education degree are found in the section on Secondary Education. School of Professional Studies (Section 8.02.3).

Elementary Education Minors

It is recommended that a student in Elementary Education who elects an area of concentration in foreign languages schedule one course in Conversation, one in Civilization, and the Folklore course. Beginning courses (101 and 102) may also be included within the required eighteen hours.

FRENCH

Arts and Sciences major for the B.A. degree:

- French: 10.103, 104, 201, 202, 211 or 212, 322;
- Electives: twelve semester hours to be selected from culture and civilization, language, or literature.

COURSES

(Code 10)

Courses designated † may be used toward General Education. Courses numbered 400 and above may also be used with special permission of the department.
(Note: Where course numbers have been changed, the former numbers appear in parentheses.)

10.100 BEGINNING FRENCH I † 4 sem. hrs.

Audio-lingual approach primarily to develop oral expression. Basic grammar stressed. Weekly laboratory sessions required. Fall only. Open only to students with no prior experience in French. This course is followed by a special section of 10.102 in the Spring.

10.101 ELEMENTARY FRENCH I † 4 sem. hrs.

Audio-lingual approach to develop the four language skills. Basic grammar stressed. Weekly laboratory sessions required.

10.102 ELEMENTARY FRENCH II † 4 sem. hrs.

Continuation of 10.101. Reading and writing given additional emphasis. Weekly laboratory sessions required.
Prerequisite: 10.101 or equivalent.

10.103 INTERMEDIATE FRENCH I † 3 sem. hrs.

Basic grammar is reviewed and new grammatical concepts are presented. Course taught in target language. Weekly laboratory sessions are required.
Prerequisite: 10.102 or equivalent.

10.104 INTERMEDIATE FRENCH II † 3 sem. hrs.

Continuation of French 10.103.
Prerequisite: 10.103 or equivalent.

10.201 GRAMMAR AND COMPOSITION† 3 sem. hrs.

In-depth study of French grammar. Stress on application of grammatical principles in controlled and free written compositions. *Fall.*

Prerequisite: 10.104 or equivalent.

10.202 CONVERSATION† 3 sem. hrs.

Student participation emphasized in prepared and free speaking activities. Outside readings and oral reports assigned. Grammar reviewed when necessary. *Spring.*

Prerequisite: 10.104 or equivalent, or concurrently with 104 with permission from the chairperson.

10.204 FRENCH STUDIES ABROAD † 6 sem. hrs.

Prerequisite: Minimum 2 semesters of French.

10.209 PHONETICS † 3 sem. hrs.

Structural analysis of the French sound system. Drills on accurate pronunciation and intonation. Selections of prose and poetry presented for imitation. *Fall.*

Prerequisite: 10.102 or equivalent.

10.211 (210) FRENCH CULTURE AND CIVILIZATION I † 3 sem. hrs.

Major developments of French culture from the historical viewpoint. *Fall.*

Prerequisite: 10.104 or equivalent.

10.212 (210) FRENCH CULTURE AND CIVILIZATION II † 3 sem. hrs.

Major aspects of life in France today. *Spring.*

Prerequisite: 10.104 or equivalent.

10.231 SELECTED READINGS † 3 sem. hrs.

French for reading knowledge; selected modern works. Recommended for the student in elementary education. *Fall '77.*

Prerequisite: 10.104 or equivalent.

10.250 FRENCH HISTORY AND CULTURE TO 1789 (IN ENGLISH) † 3 sem. hrs.

General survey of the evolution of French life and culture from Gallo-Roman beginnings to the beginning of the French Revolution. *Fall '77.*

10.251 FRENCH HISTORY AND CULTURE SINCE 1789 (IN ENGLISH) † 3 sem. hrs.

Transformation of France into a modern nation in the Revolutionary and Napoleonic eras, and a general survey of the impact of nationalism, industrialism, and shift in world balance of forces in terms of French culture and politics. *Spring '78.*

10.301 STRUCTURE AND TRANSLATION † 3 sem. hrs.

Study of structural patterns of French in comparison with English.

Problems of translation. Recommended for students planning a career in international affairs. *Fall '77.*
Prerequisite: 10.201.

10.302 ADVANCED CONVERSATION † 3 sem. hrs.

Further development of language fluency through discussion of a variety of topics and through various activities requiring the use of the spoken language.
Prerequisite: 10.202. Fall.

10.310 FOLKLORE † 3 sem. hrs.

Study of selected genres based on both social and literary aspects of French folklore. Recommended for students in Elementary Education. *Spring '78.*
Prerequisite: 10.201 or 202.

10.322 (320) SURVEY OF FRENCH LITERATURE † 3 sem. hrs.

Literature of France since its earliest beginnings to the Revolution. *Spring.*
Prerequisite: 10.201 or 202.

10.330 SHORT STORY OR SHORT NOVEL † 3 sem. hrs.

Selected works of modern French prose writers. *Fall.*
Prerequisite: 10.201 or 202.

10.331 DRAMA † 3 sem. hrs.

Selected works and discussions of major contemporary French playwrights. *Spring.*
Prerequisite: 10.201 or 202.

**10.341 FRENCH LITERATURE IN
ENGLISH TRANSLATION I † 3 sem. hrs.**

Reading, analysis and discussion of major French works in translation, beginning with the *Song of Roland* and continuing with authors such as Rabelais, Pascal, Moliere, Voltaire, Rousseau, Diderot and others. *Fall '78. Open to French majors above requirements.*

**10.342 FRENCH LITERATURE IN
ENGLISH TRANSLATION II † 3 sem. hrs.**

Readings in the novel and the theatre of 19th and 20th century with authors such as Balzac, Stendhal, Flaubert, Gide, Proust, Camus, Genet, Ionesco, and others. *Spring '77 and '79. Open to French majors above requirements.*

10.401 (405) ADVANCED FRENCH LANGUAGE 3 sem. hrs.

Thorough review of phonology, morphology, syntax and semantics. *Fall '77.*
Prerequisite: 10.201 or 202.

10.410 FRENCH AREA STUDIES 3 sem. hrs.

Significant contemporary problems of France. Its position in the world today and its relation to the United States. Reading of current French periodicals and magazines. Recommended for students planning to study abroad. May be taught in English *Spring '78*.

Prerequisite: 10.211 or 212.

10.435 SEMINAR IN MODERN FRENCH LITERATURE I .. 3 sem. hrs.

Study of a particular genre, movement, period, work, or major author from the Revolution to contemporary times. The topic of the seminar is decided by the instructor considering the needs of prospective students during the semester preceding its offering. *Fall '76 and '78*.

Prerequisite: any 300 level course.

10.436 SEMINAR IN MODERN FRENCH LITERATURE II 3 sem. hrs.

Continuation of 10.435. *Spring '77 and '79*.

Prerequisite: any 300 level course.

10.490 INDEPENDENT STUDY 1-9 sem. hrs.

Individual study of a particular aspect of French civilization, language, or literature under the supervision of a faculty member. Upon special circumstances and student needs.

Prerequisite: Permission of the instructor and approval from the Chairman.

10.495 ART AND CULTURE OF FRANCE 3 sem. hrs.

A study-tour of France with specific attention to French Art seen in relation to its social and cultural environment. Visits will be made to places of artistic and cultural interest in and around Paris, in the Loire Valley and in Southwestern France.

GERMAN

Arts and Sciences major for the B.A. degree:

German: 11.103, 104, 201, 202, 211;

Electives: fifteen semester hours to be selected from culture and civilization, language, or literature.

COURSES

(Code 11)

Courses designated † may be used toward General Education. Courses numbered 400 or above may also be used with special permission of the department.

(Note: Where course numbers have been changed, the former numbers appear in parentheses.)

11.100 BEGINNING GERMAN † 4 sem. hrs.

Audio-lingual approach to develop the four language skills. Basic

grammar stressed. Weekly laboratory sessions required. *Fall only*. Open only to students with no prior experience in German. This course is followed by a special section of 11.102 in the Spring.

11.101 ELEMENTARY GERMAN I † 4 sem. hrs.

Audio-lingual approach leads to development of the four language skills. Basic grammar stressed. Weekly laboratory sessions are required. *Fall only*.

11.102 ELEMENTARY GERMAN II † 4 sem. hrs.

Audio-lingual approach to develop the four language skills. Basic grammar stressed. Weekly laboratory sessions are required.

11.103 INTERMEDIATE GERMAN I † 3 sem. hrs.

Basic grammar is reviewed and new grammatical concepts are presented. Course taught in target language. Weekly laboratory sessions required. *Prerequisite: 11.102 or equivalent.*

11.104 INTERMEDIATE GERMAN II † 3 sem. hrs.

Continuation of 11.103.
Prerequisite: 11.103 or equivalent.

11.201 GRAMMAR AND COMPOSITION † 3 sem. hrs.

In-depth study of German grammar. Stress on application of grammatical principles in controlled and free written composition. *Fall*.
Prerequisite: 11.104 or equivalent.

11.202 CONVERSATION † 3 sem. hrs.

Student participation emphasized in prepared and free speaking activities. Outside readings and oral reports assigned. Grammar reviewed when necessary. *Spring*.
Prerequisite: 11.104 or equivalent or concurrently with 104 with permission from Chairperson.

11.204 GERMAN STUDIES ABROAD † 6 sem. hrs.

Prerequisite: Minimum 2 semesters of German.

11.211 (210) GERMAN CULTURE AND CIVILIZATION † 3 sem. hrs.

An understanding of the geography, government, customs, education, arts, and history of the German-speaking countries, as well as a vivid sense of the current scenes in these countries. *Fall*.
Prerequisite: 11.104 or equivalent.

11.212 (210) GERMAN CULTURE AND CIVILIZATION II † 3 sem. hrs.

Continuation of 11.103. *Spring only*.
Prerequisite: 11.103 or equivalent.

11.231 SELECTED READINGS † 3 sem. hrs.

German for reading knowledge; selected modern works. Recommended for the student in Elementary Education.

Prerequisite: 11.104 or equivalent.

11.301 (202) TEXTE ZUM NACHERZAEHLEN † 3 sem. hrs.

Short prose selections are read and repeated from memory, building vocabulary growth and better expression. Exercises in translation to illustrate differences in thought and expression between German and English.

Fall only.

Prerequisite: 11.102 or equivalent.

11.310 FOLK LITERATURE † 3 sem. hrs.

Study of folk genres on both social and literary aspects of German folklore. Recommended for students in Elementary Education. *Spring '76 and '78.*

Prerequisite: 11.201 or 202.

11.321 (320) SURVEY OF GERMAN LITERATURE I † 3 sem. hrs.

Readings and discussions of representative works from the following periods: Old High German, Middle High German, Renaissance, Reformation, and Baroque. *Fall.*

Prerequisite: 11.201 or 202.

11.322 (321) SURVEY OF GERMAN LITERATURE II † ... 3 sem. hrs.

Continuation of 11.321. Readings and discussions of representative works from the Enlightenment to the present. *Spring.*

Prerequisite: 11.201 or 202.

11.325 MASTERPIECES OF GERMAN LITERATURE † 3 sem. hrs.

Readings and discussions of representative works from the early period of German literature to the present. *Fall.*

Prerequisite: 11.201 or 202.

11.326 GOETHE AND SCHILLER 3 sem. hrs.

The life and works of these best-known of German authors and the effect their writings had in their time and subsequently. *Fall '75 and '77.*

Prerequisite: 11.325.

11.331 CONTEMPORARY PLAYS † 3 sem. hrs.

Selected plays of the major modern German playwrights: Brecht, Frisch, Durrenmatt, Weis, and others. *Fall '77.*

Prerequisite: 11.201 or 202.

11.333 GERMAN PROSE † 3 sem. hrs.

The *Novelle* and *Erzahlungen* of the 19th and 20th centuries. *Fall '76.*

Prerequisite: 11.201 or 202.

11.341 GERMAN AUTHORS OF THE TWENTIETH CENTURY I † 3 sem. hrs.

Works of major German authors such as Hesse, Brecht, Mann, Kafka, Durrenmatt, Ball read and discussed. Original German or English translation, depending upon students. Open to majors as free elective, above required 30 semester hours.

11.342 GERMAN AUTHORS OF THE TWENTIETH CENTURY II † 3 sem. hrs.

Continuation of 11.341.

11.401 (409) ADVANCED GERMAN LANGUAGE 3 sem. hrs.

Thorough review of phonology, morphology, syntax, and semantics. Fall '75 and '77.

Prerequisite: 11.201 or 202.

11.403 WORKSHOP 3 sem. hrs.

Selected materials for practical use. Recommended for Secondary Education majors. *Summer session.*

Prerequisite: 11.201 or 202.

11.410 GERMAN AREA STUDIES 3 sem. hrs.

Significant contemporary problems of German-speaking countries. Their position in the world today and relation to the United States. Reading of current German periodicals and magazines. Recommended for students planning to study abroad. *Spring '77 and '79.*

Prerequisite: 11.211 or 212.

11.420 MODERN GERMAN LITERATURE 3 sem. hrs.

Reading and discussion of German Literature of the 19th and 20th Centuries up to World War II. *Fall '76.*

Prerequisite: 11.325.

11.421 CONTEMPORARY GERMAN LITERATURE 3 sem. hrs.

Reading and discussion of German Literature since World War II. *Spring '77.*

Prerequisite: 11.322.

11.490 INDEPENDENT STUDY 1-9 sem. hrs.

Individual study of a particular aspect of German civilization, language, or literature under the supervision of a faculty member. Upon special circumstances and student needs.

Prerequisite: Permission of the instructor and approval from the Chairman.

SPANISH

Arts and Sciences major for the B.A. degree:

Spanish: 12.103, 104, 201, 202, 211 or 212, 230;

Electives: twelve semester hours to be selected from culture and civilization, language, or literature

COURSES

(Code 12)

Courses designated † may be used toward General Education. Courses numbered 400 or above may be used with special permission of the department.

(Note: Where course numbers have been changed, the former numbers appear in parentheses.)

12.100 BEGINNING SPANISH † 4 sem. hrs.

Audio-lingual approach to develop the four language skills. Basic grammar stressed. Weekly laboratory sessions required. *Fall only*. Open only to students with no prior experience in Spanish. This course is followed by a special section of 12.202 in the Spring.

12.101 ELEMENTARY SPANISH I † 4 sem. hrs.

Audio-lingual approach leads to development of the four language skills. Basic grammar stressed. Weekly laboratory sessions required.

12.102 ELEMENTARY SPANISH II † 4 sem. hrs.

Continuation of 12.101. Reading and writing given additional emphasis. Weekly laboratory sessions required.

Prerequisite: 12.101 or equivalent.

12.103 INTERMEDIATE SPANISH I † 3 sem. hrs.

Basic grammar is reviewed and new grammatical concepts are presented. Course taught in target language. Weekly laboratory sessions required.

Prerequisite: 12.102 or equivalent.

12.104 INTERMEDIATE SPANISH II † 3 sem. hrs.

Continuation of 12.103.

Prerequisite: 12.103 or equivalent.

12.201 GRAMMAR AND COMPOSITION † 3 sem. hrs.

In-depth study of Spanish grammar. Stress on application of grammatical principles in controlled and free written compositions.

12.202 CONVERSATION † 3 sem. hrs.

Student participation emphasized in prepared and free speaking activities. Outside readings and oral reports are assigned. Grammar reviewed when necessary. *Spring*.

Prerequisite: 12.104 or equivalent, or concurrently with 104 with permission from the Chairperson.

12.204 SPANISH STUDIES ABROAD † 6 sem. hrs.

Prerequisite: Minimum 2 semesters of Spanish.

12.209 PHONETICS † 3 sem. hrs.

Contrastive analysis of English and Spanish sound systems. Consonantal sounds stressed. Outside reading and oral reports assigned. *Spring*.

Prerequisite: 12.102 or equivalent.

12.211 (210) SPANISH CULTURE AND CIVILIZATION † 3 sem. hrs.

An understanding of Spain through geography, education, customs, fine arts, and history. *Fall*.

Prerequisite: 12.104 or equivalent.

12.212 (211) SPANISH AMERICAN CULTURE AND CIVILIZATION † 3 sem. hrs.

An understanding and appreciation of the present and past life of the Spanish-American Republics. *Spring*.

Prerequisite: 12.104 or equivalent.

12.230 INTRODUCTION TO THE STUDY OF LITERATURE † 3 sem. hrs.

Basic analysis of selected poems, plays, novels, and essays. Basic concepts of genres, literary currents and schools. *Fall*.

Prerequisite: 12.104 or equivalent.

12.231 SELECTED READINGS † 3 sem. hrs.

Spanish for reading knowledge; selected modern works. *Spring*. Recommended for students in Elementary Education.

Prerequisite: 12.104 or equivalent.

12.301 STRUCTURE AND TRANSLATION † 3 sem. hrs.

Study of structural patterns of Spanish in comparison with English. Problems of translation. Recommended for students planning a career in international affairs. *Spring '77*.

Prerequisite: 12.201.

12.302 ADVANCED CONVERSATION 3 sem. hrs.

Further development of language fluency through discussion of a variety of topics and through activities requiring the use of the spoken language. Student participation emphasized. *Fall*.

Prerequisite: 12.202.

12.310 FOLKLORE 3 sem. hrs.

Study of folk genres based on both social and literary aspects of Spanish folklore. Recommended for students in Elementary Education. *Spring '76*.

Prerequisite: 12.201 or 202.

12.310 FOLKLORE † 3 sem. hrs.

Study of folk genres based on both social and literary aspects of Spanish folklore. Recommended for students in Elementary Education. *Spring '76*.

Prerequisite: 12.201 or 202.

12.321 SURVEY OF SPANISH LITERATURE 3 sem. hrs.

Outstanding authors from the beginning of Spanish Literature to the present day. *Spring*.

Prerequisite: 12.230.

12.323 (302) SURVEY OF SPANISH AMERICAN LITERATURE I † 3 sem. hrs.

Literature of Spanish America from discovery to middle of 19th century. Presentation of most significant figures. *Fall '76 and '78.*

Prerequisite: 12.201 or 202.

12.330 SHORT STORY † 3 sem. hrs.

Intended to promote literary appreciation of the short story in Spanish. Selected works are read and discussed. *Fall.*

Prerequisite: 12.201 or 202.

12.341 SPANISH LITERATURE IN ENGLISH TRANSLATION 3 sem. hrs.

Reading, analysis, and discussion of works of Spanish literature and contemporary thought in English translation. Not applicable toward a major in Spanish. *Fall.*

12.342 LATIN AMERICAN LITERATURE IN ENGLISH TRANSLATION † 3 sem. hrs.

Reading, analysis, and discussion of works of Latin American literature and contemporary thought in English translation. Not applicable toward a major in Spanish. *Spring.*

12.410 SPANISH AREA STUDIES 3 sem. hrs.

Significant contemporary problems of Spain or Spanish-America. Their position in the world today and relation to the United States. Reading of current Spanish periodicals and magazines. Recommended for students planning to study abroad. *Spring '77.*

Prerequisite: 12.211 or 212.

12.421 SEMINAR IN SPANISH LITERATURE 3-6 sem. hrs.

Study of a particular genre, movement, period, work, or major author. The topic of the seminar may be decided between the instructor and the prospective students during the semester preceding the offering of a seminar. May be repeated once. *Fall.*

Prerequisite: 12.321.

12.423 SEMINAR IN SPANISH AMERICAN LITERATURE 3-6 sem. hrs.

Study of a particular genre, movement, period, work, or major author. The topic of the seminar may be decided between the instructor and the prospective students during the semester preceding the offering of a seminar. May be repeated once. *Fall.*

Prerequisite: 12.323.

12.490 INDEPENDENT STUDY 1-9 sem. hrs.

Individual study of a particular aspect of Hispanic civilization, language, or literature under the supervision of a faculty member. Upon special circumstances and student needs.

Prerequisite: Permission of the instructor and approval from the Chairman.

RUSSIAN

COURSES

(Code 13)

†General Education courses.

13.101 ELEMENTARY RUSSIAN I † 4 sem. hrs.

Audio-lingual and structural approach to acceptable pronunciation; vocabulary; concomitant mastery of the Cyrillic alphabet. *Fall.*

13.102 ELEMENTARY RUSSIAN II † 4 sem. hrs.

Continuation of the development of the basic skills of understanding, speaking, reading, and writing. *Spring.*

Prerequisite: 13.101 or equivalent.

13.103 INTERMEDIATE RUSSIAN I † 3 sem. hrs.

Maximum class use of the spoken language. Review of grammar and syntax based on excerpts from noted Russian authors. *Fall.*

Prerequisite: 13.101 or equivalent.

13.104 INTERMEDIATE RUSSIAN II † 3 sem. hrs.

Continuation and reinforcement of skills acquired in 13.103. A cultural reader and a scholastic Russian magazine are read. *Spring.*

Prerequisite: 13.103 or equivalent.

13.290 INDEPENDENT STUDY 1-9 sem. hrs.

Individual study of a particular aspect of Russian civilization, language, or literature under the supervision of a faculty member. Upon special circumstances and student needs.

Prerequisite: Permission of the instructor and approval from the Chairman.

ITALIAN — LATIN — POLISH

(Codes 14-15-16)

14.101-102 ELEMENTARY ITALIAN 3 sem. hrs. each course

Basic knowledge of the Italian language and acquaintanceship with Italian culture.

15.101-102 ELEMENTARY LATIN 3 sem. hrs. each course

Designed to acquaint students with Latin language and Roman culture, with attention to improvement in the English language.

16.101-102 ELEMENTARY POLISH 3 sem. hrs. each course

Designed to offer basic knowledge of the Polish language and Polish culture.

ENGLISH

Professors Louis F. Thompson (Chairperson), Charles C. Kopp, Susan Rusinko, Janet Stamm, Gerald H. Strauss, Thomas G. Sturgeon; Associate Professors M. Dale Anderson, William D. Eisenberg, Ronald A. Ferdock, Alva W. Rice, Richard C. Savage; Assistant Professors William M. Baillie, Virginia A. Duck, Lawrence B. Fuller, Nancy E. Gill, Ervene F. Gulley, Margaret Read Lauer, Dorothy O. McHale, Robert G. Mecker.

Arts and Sciences major for the B.A. degree:

- English 20.365; 20.311 or 20.312 or 20.411; 20.488 or 20.489 or 20.490; 20.493;
- Three courses chosen from 20.120, 121, 220, 221, 222, 223, 341, 342, 343, 344, 345;
- One course chosen from 20.251, 280, 333, 360, 361, 362, 370, 372, 373, 374, 380;
- Three additional 300-level or 400-level English courses.

Certificate in Journalism

The Certificate in Journalism implies introductory preparation for publication activity in teaching or in business. It is granted by the College when the student has completed three courses chosen from 20.105, 205, 255, 305, and at least two years of satisfactory service as a staff member of the *Campus Voice*, *Obiter*, or *Olympian*.

(Note: Requirements for the major for the B.S. in Ed. degree are found in the section on Secondary Education, School of Professional Studies, Section 8.2.3.)

COURSES

(Code 20)

Note: When course numbers have been changed, the former numbers are placed in parentheses for reference.

20.101 ENGLISH COMPOSITION 3 sem. hrs.

Study intended to produce proficiency in reading and writing. Frequent themes; principles of rhetoric and grammar.

20.102 WRITING PROFICIENCY EXAMINATION 3 sem. hrs.

A series of compositions written under examination conditions on topics provided by the staff. Faculty consultation and a writing laboratory are available for students in the course.

20.104 ENGLISH COMPOSITION 3 sem. hrs.

Experiences similar to those of 20.101 but reserved for freshmen who have been exempted from 20.101 on the basis of admissions criteria. Students who successfully complete 20.104 are exempt from 20.102.

20.105 (203) INTRODUCTION TO JOURNALISM † 3 sem. hrs.

Emphasis on principles and techniques of reporting. Development of journalism; theory and practice of its principles; organizational patterns of news stories; methods of gathering news and writing various types of news stories; fundamentals of editing.

20.111 LANGUAGE AND SOCIAL INTERACTION † 3 sem. hrs.

A survey of the history, varieties, forms and purposes of language and of the ways in which it may be used, understood, and described. *Not applicable toward a major in English.*

20.120 (207) WORLD LITERATURE I † 3 sem. hrs.

Important literary works of the Western world—classic Greece to the Renaissance—in terms of genres and literary movements.

20.121 (208) WORLD LITERATURE II † 3 sem. hrs.

A continuation of English 120, covering works of more recent date.

20.131 THE BIBLE AS LITERATURE 3 sem. hrs.

Examines literary types found in Old and New Testaments and their profound influence on Western culture. *Not applicable toward a major in English.*

20.151 INTRODUCTION TO LITERATURE † 3 sem. hrs.

A basic course exploring literature as experience and the techniques by which it communicates in short story, novel, drama, and poem. *Not applicable toward a major in English.*

20.153 FOLKLORE † 3 sem. hrs.

A survey of such traditional forms of oral literature as epic, ballad, folksong, folktale, and superstitions, examined in terms of origin, transmission, and influence on literature. *Not applicable toward a major in English.*

20.205 (204) FEATURE WRITING † 3 sem. hrs.

Methods of writing articles for newspapers and magazines. Techniques of gathering information and developing various types of feature articles. Study and discussion of published articles.

Prerequisite: 20.105.

20.220 (231) BRITISH WRITERS I † 3 sem. hrs.

Survey of selections from Chaucer, Spenser, Shakespeare, Bacon, Donne, Milton, Dryden, Swift, Pope, Boswell, and Johnson.

20.221 (232) BRITISH WRITERS II † 3 sem. hrs.

Survey of selections from Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Shaw, Yeats, and Eliot.

20.222 (381) AMERICAN LITERATURE I † 3 sem. hrs.

Survey of American literature from its Colonial beginnings through the Civil War, with emphasis on the writers of the American Renaissance.

20.223 (382) AMERICAN LITERATURE II † 3 sem. hrs.

Continues 20.222, covering major writers and significant social and literary movements to the present day.

20.251 (209) LITERARY GENRES † 3 sem. hrs.

Literary form as a vehicle for expression of ideas.

20.255 (301) INTRODUCTION TO MASS COMMUNICATIONS † 3 sem. hrs.

The role of mass communications: theories and realities of the freedom of the press; growth of the print media; media of radio, television, and film; mass communications industries and professions; education for mass communication.

20.280 (325) POETRY † 3 sem. hrs.

Designed to permit student exploration of the genre, under guidance of instructor. The nature of poetry—its aims, how it is created, historical and individual changes and variations in manner and matter.

20.301 (202) CREATIVE WRITING † 3 sem. hrs.

Original creative work in one or more of the genres, as determined by the instructor, receives critical analysis by the instructor and the class in group discussion.

20.302 ADVANCED COMPOSITION † 3 sem. hrs.

Designed for English majors and minors, though other students are admitted. Aims to develop in the student a greater mastery over the elements of effective writing. Attention is given to the problem of evaluating writing.

Prerequisite: Junior standing.

20.305 JOURNALISM SEMINAR † 3 sem. hrs.

Independent study and practical training in covering college and community events to help the student understand techniques of in-depth reporting and learn how to polish a news story in terms of structure, analysis, and language.

Prerequisite: 20.105 and 20.255, or permission of instructor.

20.311 (401) STRUCTURE OF ENGLISH † 3 sem. hrs.

A descriptive study of the phonology, morphology, syntax, and graphic formulas of modern American English.

Prerequisite: Junior standing.

20.312 (402) HISTORY OF THE ENGLISH LANGUAGE † 3 sem. hrs.

A descriptive study of the causes and effects of phonemic, morphological, syntactic, and semantic change in the English language from the Anglo-Saxon conquest to the present.

Prerequisite: Junior standing.

20.331 (312) IDEAS IN LITERATURE † 3 sem. hrs.

Examines such recurrent concepts in literature as the conflict between freedom and fate, the place of good and evil in the scheme of things, and the role of the individual in society.

20.332 (307) RUSSIAN LITERATURE IN TRANSLATION † 3 sem. hrs.

An introduction to the "golden age" of Russian literature—from Pushkin to Sholokhov. Readings in English of novels, poems, plays, and short stories. Attention given to ideas reflected in the works as well as to the medium through which they are dramatized.

20.333 (386) LATER AMERICAN PROSE † 3 sem. hrs.

Study of prose works of American literature, both fiction and non-fiction, from the late 19th century to the present, emphasizing literary merit and social significance. Such writers as Riis, Steffens, Sinclair, Allen, E. B. White, Thurber, Baldwin, Ellison, Steinbeck, Barrio, Momaday included.

20.334 MAJOR AMERICAN WRITERS † 3 sem. hrs.

Study of major American writers instrumental in shaping and interpreting the American experience. Writers included will vary with each presentation of the course.

20.341 EARLY AND MIDDLE ENGLISH LITERATURE † 3 sem. hrs.

A study of *Beowulf* and other Old English works in translation and of medieval chronicles and romances including *Sir Gawain and the Green Knight* and *Le Morte d'Arthur*.

20.342 (347) 16TH CENTURY LITERATURE † 3 sem. hrs.

The non-dramatic prose and verse of the period, emphasizing the last quarter of the century. The humanists: Erasmus, More, Castiglione, Elyot, Ascham; Renaissance forms and ideas in Lyly, Sidney, Spenser, Daniel, Drayton, Shakespeare, Marlowe, Chapman, Greene, and others.

20.343 (352) 17TH CENTURY LITERATURE † 3 sem. hrs.

Poetry and prose, beginning with Jonson. The rival traditions of Donne and Jonson in such poets as Herbert, Vaughan, Quarles, Cowley, Herrick, and Marvell. Principal prose writers: Burton, Browne, Taylor, Fuller, Baxter, Bunyan, and Dryden.

20.344 (347) 18TH CENTURY LITERATURE † 3 sem. hrs.

Survey of literature of the Augustan Age in England: Addison and Steele, Swift, Pope, Boswell, and Johnson; forerunners of the Romantic Revival; beginnings of the British novel; the plays of Addison, Steele, Sheridan, and Goldsmith.

20.345 (364) 19TH CENTURY LITERATURE † 3 sem. hrs.

Covers the major poets such as Wordsworth, Keats, Tennyson, Arnold, as well as major prose writers Hazlitt, Lamb, DeQuincey, Peacock, Newman, Huxley, Carlyle, and others.

20.351 (316) LITERATURE FOR CHILDREN † 3 sem hrs.

Examination and study of literature for children, with emphasis on criteria for selecting literature for the classroom and the library, suggestions for presenting literary works in the elementary classroom, and basic

literary concepts.

Prerequisite: Junior standing. Not applicable toward an Arts and Sciences major in English.

20.352 LITERATURE FOR ADOLESCENTS 3 sem. hrs.

Explores the historical development of literature aimed at adolescents or popular with them. Studies representative works in a variety of genres to determine thematic and stylistic characteristics and literary merit.

Prerequisite: Junior standing. Not applicable to an Arts and Sciences major in English.

20.360 (342) EARLY ENGLISH DRAMA † 3 sem. hrs.

Early native drama, including miracle and mystery plays, morality plays, and interludes. Elizabethan dramatists: Heywood, Marlowe, Kyd, Jonson, Webster, Middleton, and Ford.

20.361 (356) RESTORATION AND LATER DRAMA † 3 sem. hrs.

Wycherley, Etherege, Congreve, Farquhar, Dryden, and Otway, with consideration of Moliere's influence in Restoration drama. Eighteenth century sentimental comedy and tragedy, and reaction against it in Goldsmith and Sheridan. Trends in 19th century drama.

20.362 (322) MODERN DRAMA † 3 sem. hrs.

Major Continental, English, and American plays from Ibsen to Beckett, with emphasis on contemporary attitudes, themes, and structure as contrasted with those of traditional dramatists.

20.363 (260) SHAKESPEARE † 3 sem. hrs.

Study of eighteen of Shakespeare's plays with emphasis on Shakespeare as poet and playwright and with attention to conditions of the Elizabethan theatre and the history of the Shakespearean text.

20.372 (324) MODERN NOVEL † 3 sem. hrs.

A study of major modern novelists, exclusive of American and Russian writers. Emphasizes developments in fictional art, particularly realism, naturalism, impressionism, and expressionism. Begins in the turn-of-the-century novel of Conrad and moves through the writings of Mann, Proust, Lawrence, Kafka, Woolf, Joyce, and/or one or two others of the instructor's choice.

20.373 (385) AMERICAN NOVEL † 3 sem. hrs.

Studies the development of the novel in America from its beginnings about 1800 to the present. Emphasizes highlights of form, theme, and reflections of American literary and social movements. Some attention to parallel developments in the European novel.

20.374 (321) SHORT STORY † 3 sem. hrs.

A study of the history, characteristics, and techniques of the modern short story through reading and analysis of representative samples—American, British, Continental, and Latin-American.

20.380 (326) MODERN POETRY † 3 sem. hrs.

An introduction to contemporary poetic movements through study

of Emily Dickinson, T. S. Eliot, e. e. cummings, Robert Lowell, Allen Ginsberg, Thomas Hardy, Gerard Manley Hopkins, W. B. Yeats, W. H. Auden, Dylan Thomas, and other poets.

20.381 (343) CHAUCER † 3 sem. hrs.

Study of Chaucer's major poetry, with practice in speaking and reading Middle English and with major emphasis on Chaucer's literary achievement and his humanism.

20.383 (332) BLAKE AND YEATS † 3 sem. hrs.

A study of two great poets united by their search for a vision and by having created in this search perhaps the most original and complete mythological systems in English literature.

20.411 (403) GENERATIVE-TRANSFORMATIONAL GRAMMAR 3 sem. hrs.

Explores the most recent theories of grammatical analysis with particular attention to transformational grammar.

Prerequisite: Junior standing.

20.440 INDEPENDENT STUDY 3 or 6 sem. hrs.

20.482 (382) MILTON † 3 sem. hrs.

A comprehensive study of the poetry and prose of John Milton.

20.488 SEMINAR 3 sem. hrs.

Independent study with opportunity to explore a literary subject not offered in regularly scheduled courses. Content, determined by instructor, varies each time the course is offered.

Prerequisite: Junior standing and approval of instructor. Open to non-majors.

20.489 SEMINAR 3 sem. hrs.

Similar in content and method to 20.488.

Prerequisite: Junior standing and approval of instructor. Open to non-majors.

20.490 SEMINAR 3 sem. hrs.

Similar in content and method to 20.488.

Prerequisite: Junior standing and approval of instructor. Open to non-majors.

20.491 HONORS SEMINAR 3 sem. hrs.

Independent study in depth of a literary topic, approved in prior consultation with the instructor, deriving from the student's work in other English courses. Limited to ten outstanding majors or non-majors.

Prerequisite: Junior standing and approval of instructor.

20.492 (405) LITERARY CRITICISM 3 sem. hrs.

Examination in depth of major critics from Aristotle to the present; emphasis on application of critical principles to primary genres—drama,

poetry, novel.

Prerequisite: Junior standing.

20.493 BIBLIOGRAPHY AND LITERARY RESEARCH 3 sem. hrs.

History of literary scholarship, study of book production, and practice in preparing specialized bibliographies and in planning scholarly projects.

Prerequisite: Junior standing.

SPEECH COMMUNICATION AND THEATRE ARTS

Professor Melville Hopkins (Chairperson); Associate Professors William Acierno, Richard Alderfer, Erich Frohman, Michael McHale, Robert D. Richey; Assistant Professors Virginia Doerflinger, Harry Strine, Janice Youse; Instructor Hitoshi Sato.

Arts and Sciences major for the B.A. degree:

25.103, 206, 241, 325; 26.208 or 25.321; 26.312;

Elective: Twelve semester hours in Public Address courses chosen from 25.105, 218, 26.231, 25.285, 307, 421, 492 or twelve semester hours in Theatre courses chosen from 26.211, 311, 318, 319, 411, 415, 416, 490. Total 30 semester hours.

COURSES

SPEECH COMMUNICATION

(Code 25)

Courses marked † may be used toward General Education.

(Note: Requirements for the major for the B.S. in Ed. degree are found in the section on Secondary Education, School of Professional Studies.)

25.103 INTRODUCTION TO SPEECH † 3 sem. hrs.

A basic course in speech, with emphasis on interpersonal communication.

25.105 COMMUNICATION THEORY AND RHETORIC † 3 sem. hrs.

Surveys classical rhetoric and contemporary theories in communication; includes behavioral science, semantics, and philosophy of language.

25.108 FORENSICS 1 sem. hr.

Participation in forensics: debate or individual speaking events. Participation for two semesters for one semester hour. May be repeated for maximum of three semester hours.

25.206 ORAL INTERPRETATION OF LITERATURE † 3 sem. hrs.

Practice in skills necessary for intellectual and emotional meanings of poetry and prose read to an audience.

Prerequisite: 25.103, or consent of instructor.

25.218 DISCUSSION † 3 sem. hrs.

Survey of and practice in types and patterns of public discussion.
Prerequisite: 25.103, or consent of instructor.

25.220 INTERCULTURAL COMMUNICATION 3 sem. hrs.

An overview of speech communication as it relates to socio-cultural differences that reflect ethnic and racial experiences, knowledge, and values.

25.241 VOICE AND DICTION † 3 sem. hrs.

A study of vocal organs and phonetics; practice for vocal effectiveness.
Prerequisite: 25.103, or consent of instructor.

25.285 PARLIAMENTARY LAW † 3 sem. hrs.

Parliamentary procedure and practice in its usage.
Prerequisite: 25.103, or consent of instructor.

25.307 BUSINESS AND PROFESSIONAL SPEECH † 3 sem. hrs.

Business and professional communication; policy conferences and interviewing.
Prerequisite: 25.103.

25.321 ARGUMENTATION † 3 sem. hrs.

Basic principles of argument. Practice through debate; written practice through a brief.
Prerequisite: 25.103.

25.325 EXTEMPORE SPEECH † 3 sem. hrs.

Analysis of extemporaneous speech based on the correlation of thinking and speaking.
Prerequisite: 25.103.

25.421 PERSUASION 3 sem. hrs.

Ethical and scientific approaches of human motivation. Principles and oral practice.
Prerequisite: 25.103.

25.492 SEMINAR: PUBLIC ADDRESS 3 sem. hrs.

Investigation in depth of a speaker, a period, or a movement.
Prerequisite: 9 semester hours in Public Address or consent of instructor.

THEATRE ARTS

(Code 26)

26.107 THEATRE 1 sem. hr.

Participation in plays: acting or technical work. Participation for two semesters for one semester hour. May be repeated for maximum of three semester hours.

26.208 INTRODUCTION TO THEATRE ARTS † 3 sem. hrs.

A survey: criticism, direction, play production, theatre history, stage design, and acting.

26.211 THEATRE PRODUCTION † 3 sem. hrs.

Planning, execution and supervising production work and business procedures.

26.231 INTRODUCTION TO RADIO AND TELEVISION † 3 sem. hrs.

A survey of communication practices in radio and television. Laboratories in classroom.

26.240 PLAYWRITING 3 sem. hrs.

A study of dramatic structure, writing styles, and types of drama. Student writes full-length (or equivalent) play. Adaptations of other forms of literature acceptable.

26.311 SCENE DESIGN † 3 sem. hrs.

Studies of design problems in various styles and periods; application of research and preparation of working drawings.

Prerequisite: 26.211 or consent of the instructor.

26.312 FUNDAMENTALS OF ACTING † 3 sem. hrs.

Introduction to the theories and techniques of acting. Individual and group exercises.

26.314 STAGE AND LIGHTING: THEORY OF LIGHTING 3 sem. hrs.

Intensive study of theory; design of lighting of a production supplemented by applied work on productions.

Prerequisite: 26.211 or consent of the instructor.

26.318 CREATIVE DRAMATICS † 3 sem. hrs.

Improvisational techniques for the classroom for playmaking with children.

26.319 CHILDREN'S THEATRE † 3 sem. hrs.

Theories, techniques and literature of theatre for children. Laboratory hours.

26.411 PLAY DIRECTION 3 sem. hrs.

Study of the principles and techniques of play direction, with demonstrations, exercises, and production.

Prerequisite: 26.208 or consent of the instructor.

26.414 COSTUMING FOR THE STAGE 3 sem. hrs.

Historical developments and elements of design. Laboratory hours.

26.415 HISTORY OF THE THEATRE 3 sem. hrs.

Survey of structures, production practices, and plays from the beginnings to Ibsen.

Prerequisite: 26.208 or consent of the instructor.

26.416 MODERN THEATRE 3 sem. hrs.

Practice and philosophy of theatre since Ibsen, with emphasis on American theatre.

Prerequisite: 26.415 or consent of the instructor.

26.490 SEMINAR: THEATRE 3 sem. hrs.

A concentration may be offered on an individual artist, a period, or a movement in theatre.

Prerequisite: 9 semester hours in Theatre or consent of the instructor.

PHILOSOPHY

Professor Richard J. Brook, William L. Carlough (Chairperson); Associate Professors Oliver J. Larmi, Seymour Schwimmer.

Arts and Sciences Major for the B.A. degree:

Philosophy 28.302, 28.221, 28.230;

Philosophy 28.314 or 28.315;

18 semester hours elective.

COURSES

(Code 28)

Courses marked † may be used toward General Education.

28.211 INTRODUCTION TO PHILOSOPHY † 3 sem. hrs.

Reflective inquiry into selected problems of general philosophic interest. Some of these are types of knowledge, nature of reality, individual and social values, and existence of God.

28.221 HISTORY OF ANCIENT PHILOSOPHY † 3 sem. hrs.

A study of the origins of Western Philosophy in Ancient Greece. Plato's philosophical writings are examined in light of pre-Socratic speculation on the one hand and in terms of Aristotle's criticisms and developments on the other.

28.230 HISTORY OF MODERN PHILOSOPHY † 3 sem. hrs.

Examination of the beginnings of modern philosophy in the writings of 17th century Rationalists, 18th century Empiricists, and Kant. Topics include knowledge and skepticism, theory of abstractionism, mind-body problem, and problem of personal identity.

28.250 ENVIRONMENTAL PHILOSOPHY 3 sem. hrs.

Survey of past and contemporary attitudes towards nature and man's relationship to nature. Particular focus on the role of technology and the ethical dimensions of the environmental crisis.

28.290 MEDICAL ETHICS 3 sem. hrs.

Investigation of moral issues that arise in such medical contexts as human experimentation, death and dying, medical care and its distribution, genetic engineering, and definition of health and illness.

28.301 ETHICS † 3 sem. hrs.

Analysis of prominent theories: ethical relativism, hedonism, utilitarianism, duties, rights, justice; meaning and use of terms.

28.302 LOGIC † 3 sem. hrs.

Methods and principles of reasoning with applications to contemporary debates. Informal fallacies; the syllogism; predicate calculus; quantification; and induction.

28.303 PHILOSOPHY OF SCIENCE † 3 sem. hrs.

Analysis of logic and inquiry in the natural and social sciences; the nature of scientific explanation, problems of causality, measurement, prediction, and verification.

28.304 PHILOSOPHY OF THE SOCIAL SCIENCES † 3 sem. hrs.

Examination of conceptual problems in the social science disciplines, including objectivity, classification, explanation, nature of laws and reductionism.

28.306 PHILOSOPHY OF RELIGION † 3 sem. hrs.

Critical analysis of the origins and nature of religious faith. Attention given to types of religion, evidence supporting religious belief, and problems in and challenges to religion.

28.310 WORLD RELIGIONS I †

India and East Asia 3 sem. hrs.

Examination of religious beliefs from primitive stages to the developed systems of Hinduism, Buddhism, Confucianism, Taoism and Shinto. Emphasis on beliefs, traditions and practices rather than historical data.

28.311 WORLD RELIGIONS II †

Middle East and the West 3 sem. hrs.

Examination of the four great monotheisms, Zoroastrianism, Judaism,

Christianity and Islam. Inquiry into the original literature as well as the evolving theologies. Modern issues within these religious traditions.

28.314 EXISTENTIALISM AND PHENOMENOLOGY † 3 sem. hrs.

Consideration of writings of such men as Kierkegaard, Nietzsche, Husserl, Sartre, and Tillich. Major themes include human subjectivity, human freedom, alienation and meaning.

28.315 CONTEMPORARY ANALYTIC PHILOSOPHY †..... 3 sem. hrs.

Examination of a 20th century philosophical movement concerned with logical analysis. Emphasis on analysts' reconstruction of the relation between language and philosophy, particularly theory of knowledge, ethics and religion.

28.350 ENVIRONMENTAL PHILOSOPHY 3 sem. hrs.

Survey of attitudes towards nature, man's relationship to it, the role of technology, and discussion of the ethical dimensions of the environmental crisis.

28.351 THEORY OF KNOWLEDGE † 3 sem. hrs.

Inquiry into the problem of knowledge, certainty and skepticism. Theory of perception; concepts of meaning and truth.

28.402 CONTEMPORARY MORAL PROBLEMS 3 sem. hrs.

Investigation into some of the major contemporary (and perennial) moral problems: abortion and the rights of the fetus; pornography and its control; crime and its punishment; obedience to laws; discrimination based on race or sex; decision-making procedures; social justice; drugs, suicide and euthanasia; freedom and its limits.

28.431 PHILOSOPHY OF HISTORY 3 sem. hrs.

Philosophic issues of interest to the working historian, e.g., historical objectivity, historical explanation, history and the physical sciences, and the role of values in historical writing. The role of speculative philosophies of history in the writing of history.

Prerequisite: 3 semester hours of philosophy or 9 semester hours of history.

28.470 INDEPENDENT STUDY 3 or 6 sem. hrs.

Individual study of a particular philosophical problem under the guidance of the staff. Emphasis upon independent research on topics selected by student and faculty. The course may be taken twice.

Prerequisite: 6 semester hours of philosophy and approval of the Department.

ART

Professors Percival R. Roberts, III (Chairperson), Walter A. Simon; Associate Professors Kenneth T. Wilson, Stewart L. Nagel, Barbara J. Strohman; Assistant Professors Karl A. Beamer, John F. Cook, Jr., Robert B. Koslosky; Instructor Gary F. Clark.

Arts and Sciences Major for B.A. degree:

Option I, Art History Concentration: 31.315, 325, 335, 336, 345, 346, 375, 415, 495;

Option II, Studio Concentration: 32.250 and 310; 30.101 or any art history; 32.330 or 340; 12 semester hours in one of the following: Ceramics, Drawing, Fabric Design, Graphics, Painting, Sculpture, Weaving.

COURSES

GENERAL — ART EDUCATION

(Code 30)

30.101 INTRODUCTION TO ART † 3 sem. hrs.

Great works of art, past and present, with an analysis of the structure of art as determined by civilization, communication, and expression.

30.305 CHILDREN'S ART 3 sem. hrs.

Art of children and ways to promote attitudes of discovery and invention, with emphasis on growth of expression.

30.306 VISUAL ARTS FOR THE EXCEPTIONAL CHILD 3 sem. hrs.

The importance of art activity, theory and practice, as a means of enriching and stimulating the special child's awareness of himself and his work is stressed. Emphasis placed on those positive aspects for creative activity which the handicapped child possesses.

Recommended for Special Ed. majors with Junior class standing.

30.385 PHILOSOPHY AND PSYCHOLOGY OF ART 3 sem. hrs.

A study of major philosophical points of view governing an understanding and criticism of the arts, past and present, together with 20th century readings in the psychology of art and the content and biology of artistic form.

30.450 ART EDUCATION IN THE ELEMENTARY SCHOOL 3 sem. hrs.

Theories and techniques basic to the use of art in the elementary school.

ART HISTORY

(Code 31)

31.315 AMERICAN ART HISTORY † 3 sem. hrs.

A study of the history of the visual arts in America.

31.325 HISTORY OF ARCHITECTURE † 3 sem. hrs.

A study-survey of great architectural works of the past and present, including examples from both the East and West, with emphasis on sources for 19th and early 20th century architectural design.

31.335 EUROPEAN ART HISTORY I † 3 sem. hrs.

A study of the history of the visual arts on the European continent from the prehistoric up to and including the Late Gothic.

31.336 LATE EUROPEAN ART HISTORY II † 3 sem. hrs.

A study of the history of the visual arts beginning with the Renaissance up to and including French painting of the 19th century.

31.345 ORIENTAL ART HISTORY † 3 sem. hrs.

A study of the history of the visual arts in Egypt, N. India and archaic Iran.

31.346 ORIENTAL ART HISTORY II † 3 sem. hrs.

A study of the history of the visual arts in South India, Indonesia, China and Japan.

31.355 HISTORY OF MODERN ART † 3 sem. hrs.

Contemporary movements in art from the nineteenth century to the present.

31.375 INDEPENDENT STUDY IN ART HISTORY 1-3 sem. hrs.

Independent study involving research and scholarship in art history under the supervision of a faculty member and resulting in a scholarly contribution to the field and/or a published paper on a selected topic related to the student's research.

31.415 PRIMITIVE ARTS † 3 sem. hrs.

This course is also listed as Anthropology 46.410. Offered in cooperation with the Department of Sociology. A survey of graphic arts, literature, music and the dance of ancient and non-European cultures, with slides, films, specimens, and recordings.

31.495 (499) VISUAL AESTHETICS 3 sem. hrs.

Seminar study of the "silent image" emphasizing artistic concern with environmental relationships, and theories of aesthetics and art criticism.

STUDIO

(Code 32)

Note: Studio courses meet 6 periods per week for 3 semester hours credit.

32.250 DESIGN I † 3 sem. hrs.

An introduction to principles of design and organization of the visual elements, involving both two and three dimensional problems.

32.275 CRAFTS I 3 sem. hrs.

Introduction to a varied array of crafts' methods, tools, materials, techniques and concepts.

32.276 CRAFTS II 3 sem. hrs.

Continued exploration of selected in-depths crafts' processes and concepts on a more individualized basis.

32.300 CERAMICS I † 3 sem. hrs.

An introduction to the processes of making and firing ceramic objects.

32.301 CERAMICS II 3 sem. hrs.

At this level the student is afforded the opportunity to become more involved by selecting his own methods of working.

Prerequisite: Art 32.300.

32.302 CERAMICS III 3 sem. hrs.

The student seeks specialization through the pursuit of making an art object.

Prerequisite: Art 32.301.

32.303 CERAMICS IV 3 sem. hrs.

The student will be responsible for making, firing, and showing his own wares.

Prerequisite: Art 32.302.

32.310 DRAWING I † 3 sem. hrs.

An introduction and application of the basic attitudes with which a person draws. Emphasis on visual awareness.

32.311 DRAWING II 3 sem. hrs.

Composition and form in drawing.

Prerequisite: Art 32.310.

32.312 DRAWING III 3 sem. hrs.

Stresses sending form into space.

Prerequisite: Art 32.311.

32.313 DRAWING IV 3 sem. hrs.

Stresses individuality and deep involvement of personal expression.

Prerequisite: Art 32.312.

32.320 FABRIC DESIGN I † 3 sem. hrs.

An introductory course in fabric and textile decoration. Study of dyes, textile paints and solvent solutions, fabrics and their nature, and textile designs.

Prerequisite: 32.250.

32.321 FABRIC DESIGN II 3 sem. hrs.

Resistive techniques in the dyeing of fabrics both natural and synthetic.

Prerequisite: 32.320.

32.322 FABRIC DESIGN III 3 sem. hrs.

An exploration of fabric decoration techniques.

Prerequisite: 32.321.

32.323 FABRIC DESIGN IV 3 sem. hrs.

Developing an individualistic approach to designing on fabrics by painting directly onto the fabric or combining techniques in a mixed media motif.

Prerequisite: 32.322.

32.330 PAINTING I † 3 sem. hrs.

Exploration and sensitivity to environment through paint.

32.331 PAINTING II 3 sem. hrs.

Painting, with attention to technical skill inherent in the style or technique of the student.

Prerequisite: 32.330.

32.332 PAINTING III 3 sem. hrs.

Development of maturity of style and statement.

Prerequisite: 32.331.

32.333 PAINTING IV 3 sem. hrs.

Advanced work planned for individual needs. Paintings are structured from experiences based upon previous development.

Prerequisite: 32.332.

32.340 SCULPTURE I † 3 sem. hrs.

A studio course in three-dimensional expression, with its primary goal to expose the student to basic sculptural materials.

32.341 SCULPTURE II 3 sem. hrs.

Continued development in the use of materials and processes directing itself towards unique individual expression.

Prerequisite: 32.340.

32.342 SCULPTURE III 3 sem. hrs.

Sculpture focuses on the expansion of expression and its relationships to sculptural processes.

Prerequisite: 32.341.

32.343 SCULPTURE IV 3 sem. hrs.

Advanced work planned for individual needs toward a maturing style in sculpture.

Prerequisite: 32.342.

32.350 WEAVING I † 3 sem. hrs.

An introduction to weaving. History of weaving, logic, tools, fibers (warp and fillings); dyeing warp, looms (parts and function).

Prerequisite: 32.250.

32.351 WEAVING II 3 sem. hrs.

Weaving techniques—experiencing the loom (hand weave—frame loom—table harness loom—Macrame).

Prerequisite: 32.350.

32.352 WEAVING III 3 sem. hrs.

Continued experience in weaving techniques with emphasis on wall hangings, rugs and tapestry 2D or 3D—double weave.

Prerequisite: 32.351.

32.353 WEAVING IV 3 sem. hrs.

Developing an individualistic approach to weaving by exploring and experimenting with weft and warp. Integrating and combining woven materials as well as non-woven materials in order to achieve a unified end-product.

Prerequisite: 32.352.

32.360 GRAPHICS I † 3 sem. hrs.

Exploration of the techniques of Relief; woodcut, linocut, and collagraph; intaglio: etching, aquatint and drypoint; Serigraphy: glue and film methods.

32.361 GRAPHICS II 3 sem. hrs.

Color and color registration methods. Concentration in serigraphy.

Prerequisite: 32.360.

32.362 GRAPHICS III 3 sem. hrs.

Introduction to mixed media techniques. Introduction to lithographic and photographic printmaking.

Prerequisite: 32.361.

32.363 GRAPHICS IV 3 sem. hrs.

Individual exploration of traditional and experimental printmaking methods. Emphasis on personal expression.

Prerequisite: 32.362.

32.370 ENAMELLING* † 3 sem. hrs.

Enamelling on metals, exploring multifaceted applications in jewelry and sculpture and wall plaques and investigating the basic processes such as cloisonne, plique-a-jour, inlay, basse-taille, etc.

32.380 JEWELRY MAKING* † 3 sem. hrs.

A study of jewelry forms past and present from the standpoint of both utility and design. Problems in wood and metals, ceramics, glass, and plastics, exploring contemporary jewelry forms and processes.

*Courses offered every other year or as sufficient student enrollments are obtained.

32.395 INDEPENDENT STUDY IN ART MEDIA 1-6 sem. hrs.

Individualized production in the plastic arts not covered by other studio course offerings, and in-depth explorations, innovative uses and applications of selected art media. Course may be repeated more than once with the instructor's consent.

32.400 FIGURE STUDY 3 sem. hrs.**

A study of the theory and practice of depicting the human figure in a variety of media, draped and undraped, from still and action poses, singly and in groups, including analysis of outstanding figurative works of the past and present.

Prerequisite: 32.310, 311, 330, 340, 341; or consent of the instructor and the department chairperson.

**32.475 INDEPENDENT STUDY IN
STUDIO ARTS I 1-3 sem. hrs.**

**32.476 INDEPENDENT STUDY IN
STUDIO ARTS II 1-3 sem. hrs.**

Individualized independent study in studio areas. Amount of course credit awarded determined by instructor and written proposal of student with the consent of the department chairman on the basis of substance and depth of project to be undertaken.

Prerequisite: satisfactory completion of three levels of a studio area or its equivalent.

32.490 ART GALLERY* † 3 sem. hrs.

A study of works by classical and contemporary artists in selected museums in New York and Pennsylvania, with emphasis on technique, visual concepts, aesthetics and historical context in both 2-d and 3-d forms, and study of the role of the art museum culturally and educationally. Visits to selected galleries are followed by in-depth study on campus together with special problems assigned in conjunction with the college art gallery arranged by its director.

32.495 ART AND CULTURE OF FRANCE 3 sem. hrs.

A study-tour of France with specific attention to French Art seen in relation to its social and cultural environment. Visits will be made to places of artistic and cultural interest in and around Paris, in the Loire Valley and in Southwestern France.

*Courses offered every other year or as sufficient student enrollments are obtained.

**Note: The figure may also be incorporated in other advanced studio areas as well as at the discretion of the instructor.

MUSIC

Associate Professors William K. Decker (Chairperson), Sylvia H. Cronin, John P. Master, Nelson A. Miller, Richard J. Stanislaw; Assistant Professors John H. Couch, Stephen C. Wallace.

The Department of Music serves the entire college community through its music organizations, its opportunity for private lessons, concerts by the ensembles, recitals by students and faculty members, and through courses which may be taken in partial fulfillment of the Group I requirement in General Education.

Credit may be earned in seven ensembles, Maroon and Gold Band, Concert Choir, Women's Choral Ensemble, College-Community Orchestra, Husky Singers, Studio Band, and Madrigal Singers. Enrollment in the ensembles is open upon selection after audition. The Ensembles are described as courses 35.111-35.117. A student may receive no more than six credits in music ensembles toward a baccalaureate degree.

Private lessons in organ, piano, strings, woodwinds, brasses, and voice are available to properly qualified students. As many as six semester hours may be earned through private lessons in one of these instruments in as many consecutive semesters. The number of students accepted for private lessons is limited by available faculty, and continuation is reserved for those who exhibit continued development. Private lessons are described as courses 35.141-35.196.

Arts and Sciences Major for the B.A. degree:

35.102, 131, 132, 231, 232, 251, 331, 332;

8 semester hours of ensemble;

one of the following two options:

Music History and Literature option — 12 semester hours from 35.221, 322, 323, 324, 326, 421; 8 semester hours in piano or in another instrument if piano competency is met.

Applied Music option — 3 semester hours in music history;

16 semester hours in one instrument;

one semester hour performance seminar.

COURSES

(Code 35)

Courses marked † may be applied toward the General Education requirement. Courses marked * are offered in alternate years or upon demand.

35.101 INTRODUCTION TO MUSIC † 3 sem. hrs.

An approach to music listening through basic vocal and instrumental study. Analysis of varied masterpieces, composers, musical forms and styles. No previous musical experience necessary.

35.102 SURVEY OF MUSIC † 3 sem. hrs.

Same subject matter as 35.101, but designed for students who have had pre-college study in a musical instrument or voice; analyses are more detailed than in the above course. Not to be scheduled in addition to 35.101.

35.111 MAROON AND GOLD BAND † 1 sem. hr.

Music of varied styles and periods. Four hours per week for two semesters of one academic year is required for one semester hour.

35.112 CONCERT CHOIR † 1 sem. hr.

Music of varied styles and periods, stressing oratorio and a cappella literature. Three hours per week for two semesters for one semester hour.

35.113 WOMEN'S CHORAL ENSEMBLE † 1 sem. hr.

Popular to masterworks. Three hours per week for two semesters for one semester hour.

35.114 COLLEGE-COMMUNITY ORCHESTRA † 1 sem. hr.

Music appropriate to the small symphony orchestra. Two hours per week.

35.115 STUDIO BAND † 1 sem. hr.

Jazz, swing, and other forms representing the dance band style. Two hours per week.

35.116 HUSKY SINGERS † 1 sem. hr.

Popular to masterworks. Two hours per week.

35.117 MADRIGAL SINGERS † 1 sem. hr.

Open to singers from other college vocal ensembles who pass the director's audition. Music chiefly from the Renaissance, but other styles and periods included. Two hours per week.

35.130 FUNDAMENTAL MUSICIANSHIP † 3 sem. hrs.

Personal musical development: elementary theory, music reading, singing, playing simple instruments, simple chordings, transpositions, and bodily movement to music. Suggested for elementary and special education majors with little musical background as preparation for 35.311 or 35.131.

35.131 THEORY I † 3 sem. hrs.

Harmony, including tonic, subdominant, and dominant chords. Sight-singing and keyboard harmonizations. Four hours per week.

35.132 THEORY II † 3 sem. hrs.

Continuation of Theory I, including study of supertonic, submediant, and mediant chords, and common-chord and chromatic modulation. Melodic and harmonic dictation, sight-singing, and keyboard training. Four hours per week.

Prerequisite: 35.131.

35.141-146 STRINGS I-VI † 1 sem. hr. each course

Private lessons for students with demonstrated ability or potential.

35.151-156 ORGAN I-VI † 1 sem. hr. each course

Private lessons for those who have previously studied organ or who have strong piano backgrounds.

35.161-166 BRASS I-VI † 1 sem. hr. each course

Private lessons in a brass instrument in which the student has demonstrated ability.

35.171-76 VOICE I-VI †1 sem. hr. each course

Private lessons for student with demonstrated vocal ability.

35.181-186 PIANO I-VI †1 sem. hr. each course

Private lessons for students who have had previous piano study.

35.191-196 WOODWINDS I-VI †1 sem. hr. each course

Private lessons in an instrument in which the student has demonstrated ability.

35.221 (121) MEDIEVAL AND RENAISSANCE

MUSIC* †3 sem. hrs.

Emphasis on pre-Baroque; active listening; development of a technical vocabulary.

Prerequisite: 35.101 or 102.

35.222 (322) MUSIC OF THE ROMANTIC ERA* † 3 sem. hrs.

Nineteenth century European music; composers; relationship of music to the culture of the time.

Prerequisite: 35.101 or 35.102.

35.242 CLASS PIANO I †..... 2 sem. hrs.

Group piano instruction for the beginner. Emphasis on solo playing, creating accompaniments, and sight reading. Three hours per week.

35.243 CLASS PIANO II † 2 sem. hrs.

Continuation of 35.242 for students of demonstrated ability. Developments of independence in solo playing and accompanying. Three hours per week.

35.245 CLASS VOICE I † 2 sem. hrs.

Group voice instruction for the beginner. Emphasis on fundamental singing techniques and solo performance. Three hours per week.

35.251 AESTHETICS AND MUSIC CRITICISM* † 3 sem. hrs.

Comparison of music objectives and philosophies of schools, eras, and individual composers. Principles of criticism that apply to music and its performance.

35.311 MUSIC IN THE ELEMENTARY SCHOOL 3 sem. hrs.

Designed to provide prospective elementary school teachers with the skills, understanding, and attitudes which will help them to function effectively in the area of music in the self-contained classroom.

Prerequisite: juniors and seniors only.

35.315 MUSIC FOR THE EXCEPTIONAL CHILD 3 sem. hrs.

For teachers of children who deviate mentally, physically, and emotionally from the average. Emphasis on development of musical skills and understandings which help the teacher to function independently in the special classroom; an orientation to the musical experiences which

further the general growth of exceptional children, and the development of organizational skills for effective learning.

35.323 TWENTIETH CENTURY MUSIC* † 3 sem. hrs.

Compositions by composers from Debussy to the present; listening and analysis of representative works.

Prerequisite: 35.101 or 35.102.

35.324 AMERICAN MUSIC* † 3 sem. hrs.

Analysis of works of selected American composers with reference to characteristics indigenous to American music.

Prerequisite: 35.101 or 35.102.

35.325 OPERA AND MUSIC THEATRE* † 3 sem. hrs.

Great works of the lyric stage. Listening and readings concerning opera, operetta, and the popular theatre.

Prerequisite: 35.101 or 35.102.

35.326 MUSIC OF THE BAROQUE PERIOD* † 3 sem. hrs.

Important forms of the Baroque era as presented in the works of Monteverdi, Bach, Handel, Vivaldi and their contemporaries.

Prerequisite: 35.101 or 35.102.

35.327 SURVEY OF POPULAR MUSIC 3 sem. hrs.

Analysis of factors and elements of twentieth century popular music. Chronological study includes jazz, balladry, spiritual, country-western, theatre, rock, and soul in comparative listening situations.

35.341 CHORAL TECHNIQUES* † 3 sem. hrs.

Development of techniques and abilities for participating in and supervising choral ensembles. Tone production, proper breathing, conducting, and appropriate literature.

35.412 LITERATURE AND MATERIALS OF

CHILDREN'S MUSIC 3 sem. hrs.

Designed to provide elementary education students with a broad knowledge of the music program in the elementary grades. Review of basic texts, recordings, filmstrips, films; development of a repertoire of songs and rhythmic activities.

Prerequisite: 35.311.

35.421 EIGHTEENTH CENTURY MUSIC * † 3 sem. hrs.

Symphony, sonata, and chamber music from the Classical period with emphasis on the sonata form of the late 18th century. Key schemes, thematic development, and harmonic vocabulary.

Prerequisite: 35.101 or 102; 131, 132.

35.491 INDEPENDENT STUDY 1-3 sem. hrs.

Student project of a creative nature in music history, education, or performance. Proposals must be accepted by department prior to registration. Final grade and amount of credit determined after presentation of completed project to department.

GROUP II: SOCIAL SCIENCE AND HISTORY

ECONOMICS

Professors T. S. Saini (Chairperson), U. S. Bawa, Associate Professors Barbara Dilworth, Robert MacMurray, Robert Ross; Assistant Professor Woo Bong Lee.

Arts and Sciences Majors for the B.A. and B.S. degrees:

Economics 40.211, 212, 311, 312, 346; and one of the following concentrations.

B.A. degree, option I, intended for general study of economics: One course from Economics 40.315, 423, 434, 424; one course from 40.313, 316, 317, 422; one course from Sociology 45.466, Economics 40.470, 490; one course from Geography 41.221, Psychology 48.351, Philosophy 28.301, Biology 50.351, Political Science 44.336, Sociology 45.316, History 42.471, 472; fifteen semester hours elective in economics.

B.S. degree, intended for the student who is interested in analytical study of economics related to business: Business 91.221, 222, 93.343, 342, 345; twelve semester hours elective in economics.

B.A. degree, option II, intended for the student whose interest is in Political Economy and who hopes to enter a career in some aspect of international relations or trade: Political Science 44.161, 336; Economics 40.460; twelve semester hours elective in economics; six semester hours elective in political science. (The following pairs of courses in economics and political science are recommended as especially pertinent to the purposes of Option II: 40.423 paired with 44.405; 40.422 with 44.366; 40.433 with 44.383; 40.316 with 44.453; 40.410 with 44.336; 40.315 with 44.326.) Study of a foreign language recommended.

Electives in economics, business and political science in any of the options require the adviser's approval.

COURSES

(Code 40)

Courses marked † may be used toward General Education.

40.211 PRINCIPLES OF ECONOMICS I † 3 sem. hrs.

Macroeconomics: Nature of the economic problem; economic concepts; institutional framework; supply, demand and the market mechanism; national income accounting; determination of output and employment levels; consumption, saving and investment behavior; business cycles; inflation and unemployment; monetary and fiscal institutions and theory; economic growth.

40.212 PRINCIPLES OF ECONOMICS II † 3 sem. hrs.

Microeconomics: Supply, demand and the price system; theory of consumer behavior and the firm; cost and production analyses, output and price determination; resource allocation and determination of factor incomes under perfect and imperfect markets; current economic problems; international economics.
Prerequisite: 40.211.

**40.246 BUSINESS AND ECONOMICS
MATHEMATICS † 3 sem. hrs.**

Introduction to basic mathematical tools of business and economics, e.g., systems of linear equations, inequalities, elements of linear programming, matrix algebra, and differential and integral calculus.

**40.311 INTERMEDIATE MICRO-THEORY AND
MANAGERIAL ECONOMICS 3 sem. hrs.**

Theory of consumer behavior and the firm; output and price determination under different market systems; pure competition, pure monopoly, oligopoly and monopolistic competition; production and cost analysis; allocation of resources and distribution of income; comparison of behaviors of competitive, monopolistic and oligopolistic product and resource markets; constrained and non-constrained optimization techniques and their applications to business decisions and business practices; welfare economics.
Prerequisites: 40.211, 212, 246.

40.312 INTERMEDIATE MACRO-ECONOMIC THEORY 3 sem. hrs.

National income analysis, theory of income determination, employment and price levels; monetary and fiscal institutions, theory and policy; investment, interest and demand for money; business cycles; inflation and unemployment; national debt; macroeconomic equilibrium; prices, wages and aggregate supply, economic growth, foreign trade and balance of payments; economic policy.
Prerequisites: 40.211, 212, 246.

40.313 LABOR ECONOMICS 3 sem. hrs.

Economics of the labor market; supply of and demand for labor; nature and theory of wages; productivity and inflation. Unionism; historical development; theories of labor movements; trade union governance; collective bargaining; government intervention and public policy.
Prerequisite: 40.212.

40.315 BUSINESS AND GOVERNMENT 3 sem. hrs.

A survey of government policies for maintaining competition, for substituting regulation in place of competition and for substituting public for private enterprise; tests of various government policies in the light of economic theory and historical experience.
Prerequisite: 40.212.

40.316 URBAN ECONOMICS 3 sem. hrs.

The application of economic theory and recent empirical findings to urban resource use. Problems analyzed include employment, housing, education, transportation, pollution and minorities.
Prerequisite: 40.212.

40.317 POPULATION AND RESOURCE PROBLEMS 3 sem. hrs.

Classical theories of population growth, recent economic models of population correlating natural resources, capital accumulation, technological change. Population problems in North American, European and developing countries. Recent trends in birth and death rates as factors in population growth. Study of measures of population and labor force, their distribution by age, sex, occupation, regions; techniques for projecting population levels.

Prerequisite: 40.212.

40.346 BUSINESS AND ECONOMICS STATISTICS I 3 sem. hrs.

Descriptive statistics, averages, dispersion, elements of probability, index numbers, time series, introduction to regression and correlation analysis, theory of estimation and testing of hypothesis as applied to business and economic problems.

Prerequisite: 40.212.

40.400 INTRODUCTION TO ECONOMETRICS 3 sem. hrs.

The application of modern statistical methods to economic problems; time series and cross-sectional analysis of measurements of demand and costs; macro-economic models; income distribution and growth model.

Prerequisite: 40.212.

40.410 PUBLIC FINANCE 3 sem. hrs.

Analysis of revenues and expenditures of local, state and national government in light of micro- and macro-theory; criteria and models of government services; subsidies, etc., principles of taxation, public borrowing and public debt management; impact of fiscal and budgetary policy on resource and income allocation, internal price and employment stability; the rate of growth and world economy.

Prerequisite: 40.212.

40.413 MONEY AND BANKING 3 sem. hrs.

The historical background and development of monetary practices and principles of banking with special attention to commercial banking and credit regulations, and current monetary and banking development.

Prerequisite: 40.212.

40.422 CONTRASTING ECONOMIES 3 sem. hrs.

Theories of capitalism and socialism with special emphasis on Marxian theory. Comparison of theoretical and actual performance of capitalism, socialism and communism.

Prerequisite: 40.212.

40.423 HISTORY OF ECONOMIC THOUGHT 3 sem. hrs.

Survey of economic theories propounded in the past and their effect on present-day thinking about economic, business and political systems. The surplus value theory; economic planning as part of government responsibility; relation of family budgets to Engel's Law; government responsibility for employment and rent control.

Prerequisite: 40.212.

40.424 ECONOMIC HISTORY OF THE WESTERN WORLD 3 sem. hrs.

Comparative analysis of the economic theory of Europe and the United States, with particular attention to the interplay of changes in business, financial and labor institutions, products and production, adaptations to resource differences, and conflicting economic doctrines.

Prerequisite: 40.212.

40.333 INTERNATIONAL ECONOMICS 3 sem. hrs.

Pure theory of international trade. Gains from trade; free trade and protection; balance of payments; foreign exchange and capital movements; the dollar and the international monetary system and international liquidity shortage.

Prerequisite: 40.212.

40.434 ECONOMIC GROWTH OF UNDERDEVELOPED AREAS 3 sem. hrs.

A study of stagnating economies: theories of underdevelopment; operative resistances to economic growth; role of capital, labor, population growth, and technological advance; development planning and trade in development setting.

Prerequisite: 40.212.

40.446 BUSINESS AND ECONOMICS STATISTICS II 3 sem. hrs.

Sampling and sampling distributions; probability; tests of hypothesis; decision making; simple correlation analysis; contingency tables; analysis of variance; computer applications; designs of experiments.

Prerequisite: 40.212, 40.346.

40.460 ADVANCED POLITICAL ECONOMY 3 sem. hrs.

Application of economic and political models of social decision-making to historical problems from local through international levels; evaluation of market, political and mixed techniques in particular areas from the 18th through the 20th centuries.

Prerequisite: 40.212.

45.466 RESEARCH METHODS IN THE SOCIAL SCIENCES 3 sem. hrs.

This course is offered in the department of sociology and described with the sociology courses.

Prerequisite for students of economics: 40.346 and permission of Economics Department.

40.470 SENIOR SEMINAR 3 sem. hrs.

Discussion of current literature on economic theory and economic policy. Each student reads one journal article a week on which he writes a report and makes a seminar presentation.

Prerequisite: Senior standing or permission of the instructor.

40.490 INDEPENDENT STUDY..... credit to be arranged with the department

Open only to the final semester seniors. Topic and outline must be approved by the department during the preceding semester of residence.

GEOGRAPHY AND EARTH SCIENCE

Professors Wendelin R. Frantz (Chairperson), Bruce E. Adams, John A. Enman, Lee C. Hoppie; Associate Professors Brian A. Johnson, James R. Lauffer, James T. Lorelli, Lavere W. McClure; Assistant Professors Duane D. Braun, Norman M. Gillmeister, Mark A. Hornberger, Joseph R. Pifer, John J. Serff, Jr., George E. Stetson; Instructors Robert G. Decker, Henry D. Dobson.

Arts and Science Major in Geography for the B.A. degree:

Option I. (General): 41.101, 102; 24 semester hours in courses with code numbers 41 and 51 with at least one course from each of four areas: Systematic Physical—41.253, 256, 51.101, 255, 259; Human Geography—41.213, 221, 258, 310, 324, 463; Regional—41.321, 333, 343, 344, 345, 346, 347; Techniques—41.254, 462.

Option II. (Emphasis on Urban and Regional Planning): 12 semester hours in courses in Planning including 41.150, 41.254, and courses presently in preparation;

15 semester hours from 41.221, 258, 310, 454, 463, 51.101, 105;

3 semester hours from 40.211, 212, 316, 410;

3 semester hours from 44.351, 356, 437, 453;

3 semester hours from 45.211, 233, 316, 468;

3 semester hours from 32.250, 48.260, 53.171.

COURSES

*(Courses in Earth and Space Science
are listed under Code 51)*

GEOGRAPHY

(Code 41)

Note: When course numbers have been changed, the former numbers are placed in parentheses for reference.

Courses marked † may be applied toward General Education requirements. Any other courses may also be applied provided one of these has been taken.

41.101 WORLD PHYSICAL GEOGRAPHY † 3 sem. hrs.

Earth-sun relationships, land masses, oceans, landforms, weather and climate, and natural resources as elements and controls related to the adjustments man makes to his environment.

41.102 WORLD CULTURAL GEOGRAPHY † 3 sem. hrs.

Designed to show the relationship of man, land, culture and economic activities.

41.125 (225) WEATHER AND CLIMATE 3 sem. hrs.

A study of the interrelationships between the elements of weather and climate; the functional application of these elements is elaborated upon

through a study of climatic realms. Students having taken 51.255 may not enroll in or receive credit for 41.125.

41.150 ELEMENTS OF PLANNING 3 sem. hrs.

Designed to acquaint students with the philosophy of planning, the roles of the planner, and planning problems.

41.213 (323) POLITICAL GEOGRAPHY 3 sem. hrs.

An analysis of physical, human, and economic factors which influence the changing pattern of the political map of the world.

41.221 (121) ECONOMIC GEOGRAPHY 3 sem. hrs.

Major economic activities; focus on significant characteristics, location theory and spatial patterns.

41.253 (353) PHYSIOGRAPHY 3 sem. hrs.

The study of the dynamic, tectonic, and gradational forces, which, in conjunction with climatic and biologic forces, have shaped the earth into its present form and continuously refashion and modify it. Students having taken 51.365 may not enroll in or receive credit for 41.253.

41.254 ELEMENTS OF CARTOGRAPHY 3 sem. hrs.

Use, construction, and interpretation of maps, models, globes, charts, and geographic diagrams.

41.256 (356) CLIMATOLOGY 3 sem. hrs.

An analysis of climate (temperature, moisture, pressure, wind, air masses and storms) and the world-wide distribution of climates.

41.258 CONSERVATION OF NATURAL RESOURCES 3 sem. hrs.

Identifies resource management and environmental problems and offers possible alternative solutions for these problems.

41.310 POPULATION GEOGRAPHY 3 sem. hrs.

A quantitative analysis of demographic data and qualitative examination of population characteristics.

**41.321 GEOGRAPHY OF UNITED STATES
AND CANADA 3 sem. hrs.**

A spatial analysis of the United States and Canada emphasizing such concepts as environmental perception and sequent occupance; salient problems within geographic regions are considered in terms of genesis and potential for solution.

**41.324 (224) GEOGRAPHIC INFLUENCES IN
AMERICAN HISTORY 3 sem. hrs.**

Relationship between the historical movements and the natural environments in the United States.

Prerequisite: 42.222.

41.333 (233) GEOGRAPHY OF EUROPE 3 sem. hrs.

Europe's physical characteristics, topography, transportation systems, resources, population, and trade.

41.343 (243) GEOGRAPHY OF MONSOON ASIA 3 sem. hrs.

Physical and Cultural Characteristics of South and East Asia (Pakistan through Japan).

41.344 GEOGRAPHY OF LATIN AMERICA 3 sem. hrs.

Latin America as a major geographic region is examined in terms of those economic, racial, and cultural forms that have provided regional unity and diversity.

41.345 (245) GEOGRAPHY OF AFRICA 3 sem. hrs.

Physical geographic elements as they relate to agriculture, grazing, mining, manufacturing, transportation, communication, and political boundaries of the continent.

41.346 (246) GEOGRAPHY OF THE SOVIET REALM 3 sem. hrs.

Physical and human geography of the Soviet Union with some emphasis upon the relationship between that country and the so-called "satellite" nations.

41.347 GEOGRAPHY OF THE MIDDLE EAST 3 sem. hrs.

Cultural and physical geography of the area including Turkey, through Afghanistan.

41.454 CARTOGRAPHY FOR URBAN-REGIONAL PLANNING 3 sem. hrs.

The use, construction, and interpretation of maps, charts, and diagrams for urban and regional land use planning.

41.462 THEORETICAL AND QUANTITATIVE GEOGRAPHY 3 sem. hrs.

Conceptual frameworks, theoretical developments, methods of measuring intensity and dispersion of geographical distributions, and quantitative approaches in geographical analyses. 2 hours class and 2 hours laboratory/week.

41.463 (363) URBAN GEOGRAPHY 3 sem. hrs.

Designed to provide a conceptual and methodological framework in which to view the process of urbanization.

41.475 SPECIAL PROBLEMS IN GEOGRAPHY 1-3 sem. hrs.

Independent, investigative research oriented to studies of specific geographical problems.

Prerequisite: for Junior and Senior Geography majors.

HISTORY

Professors Robert D. Warren (Chairperson), Hans K. Gunther, Craig A. Newton, H. Benjamin Powell, James R. Sperry; Associate Professors Richard G. Anderson, John C. Dietrich, Arthur Lysiak, Theodore Shanoski, Ralph Smiley, Anthony J. Sylvester, George A. Turner, James R. Whitmer, John B. Williman.

Arts and Sciences Major for the B.A. degree:

History 42.398; 27 semester hours elective in courses in history including at least 15 semester hours numbered above 300.

COURSES

(Code 42)

Courses marked † may be used toward General Education.
Prerequisites are subject to modification by the instructor.

42.112 ORIGINS OF THE MODERN WORLD † 3 sem. hrs.

Political, economic, social, and intellectual forces that shaped the story of mankind from the early Renaissance to the nineteenth century.

42.113 THE MODERN WORLD † 3 sem. hrs.

Political, economic, social, intellectual, and technological elements of nineteenth and twentieth century history, showing the progress of the Western tradition and the growing importance of the non-Western world.

42.121 (221) UNITED STATES HISTORY SURVEY: COLONIAL PERIOD TO 1877 † 3 sem. hrs.

A chronological history to 1877 with emphasis on the evolution of political, economic, social and cultural aspects.

42.122 (222) UNITED STATES HISTORY SURVEY: 1877 TO THE PRESENT † 3 sem. hrs.

Political, social, intellectual and economic developments of the United States from Reconstruction to the present.

42.208 CONTEMPORARY ISSUES IN UNITED STATES HISTORY † 3 sem. hrs.

An examination of important social and political issues within a historical framework which have current significance and are of concern in American society.

42.223 ECONOMIC HISTORY OF THE UNITED STATES † 3 sem. hrs.

To understand the changing nature of the American economy, this course covers three time periods: the commercial-agricultural age, the industrial age, and the modern managerial age. Agriculture, banking, business administration, commerce, labor, manufacturing, mining and transportation; social and political factors that contributed to changing economic relationships in the United States.

42.225 (371) AFRO-AMERICAN HISTORY † 3 sem. hrs.

A historical examination of the black African heritage, travail of slavery, release from bondage, accommodation and protest, racial violence, black nationalism, civil rights struggle, and significance and influence in United States history.

**42.227 (365) THE AMERICAN WOMAN:
ACCOMPLISHMENTS AND ASPIRATIONS † 3 sem. hrs.**

Identification of the status, roles, and achievements of American women from the colonial period to the present. Historical events or trends which elevated or diminished women's place in American society. The attitude of men towards women and their roles so that the advancement of the latter will be perceived to result from the interaction of sexes which produced the major turning points of the "woman question" in American History.

42.233 THE ANCIENT AND MEDIEVAL WORLDS † 3 sem. hrs.

A survey course from the Ancient Near East to the fall of the Roman Empire in the West, emphasizing Greece, Rome, and the rise of Christianity; a study of the people and countries of the West which emerged following the fall of the Roman Empire, with an emphasis on feudalism, manorialism and the medieval church.

**42.246 (346) MODERN EUROPEAN THOUGHT
AND SOCIETY † 3 sem. hrs.**

Changes in currents of thought during the period are related to political, economic, and social developments. Special attention given to interpretations of major intellectual movements.

42.275 HISTORY OF CHRISTIANITY † 3 sem. hrs.

A survey course in the history of the branches of Christianity through twenty centuries. Emphasis is placed on institutional and doctrinal development, focusing mainly on Western European Christianity. Concentrated study of some of the great men in Christian history; the papacy and some of the great popes; movements of the 18th century, ending with the ecumenical movement and the Vatican Councils.

**42.318 EARLY ENGLAND: THE MAKING OF
AN ISLAND STATE 3 sem. hrs.**

Political, economic, social, and cultural life in England to the Glorious Revolution.

**42.319 MODERN ENGLAND: THE FIRST
INDUSTRIAL EMPIRE 3 sem. hrs.**

Political, social, economic, and cultural developments in England from the Glorious Revolution to the present with emphasis upon the development of democracy, the Industrial Revolution and the growth and decline of the British Empire.

42.322 RENAISSANCE AND REFORMATION ERAS 3 sem. hrs.

Political, social, economic, literary, artistic, and intellectual develop-

ments from c. 1300 in Italy and including the spread of the Renaissance throughout Europe; also a critical study of the Protestant and Catholic reformations in relation to the political, economic, social, and cultural developments in Western Europe in the 16th and 17th centuries.
Prerequisite 42.111 or 42.112.

**42.323 EUROPEAN IMPERIALISM: THE ENCOUNTER
 OF RACES AND SOCIETIES 3 sem. hrs.**

A general basic study of the commingling of the races of mankind, and of modern with traditional societies; in the course of European overseas expansion, with the creation of a global economy, global politics, and the problem of the underdeveloped world.

**42.324 REVOLUTIONARY EUROPE AND THE RISE
 OF MODERN TRADITIONS, 1600-1789 3 sem. hrs.**

Rise of the modern state; political, intellectual, social, economic, and cultural aspects of the eras of the Scientific Revolution and Enlightenment; the establishment of European world hegemony and a world economy; diplomatic and military interaction of the European states.

42.326 EUROPE 1789-1914 3 sem. hrs.

Political and military events within their economic, social, intellectual, religious, and artistic setting from the French Revolution through the Industrial Revolution and the Unification of Italy and Germany to the diplomatic crises that led to the First World War.

42.335 (412) COMMUNIST EASTERN EUROPE 3 sem. hrs.

An introductory look at the European world beyond the Iron Curtain: its ethno-linguistic patterns as the original home of a number of American immigrant peoples; its experience as a laboratory of applied Communist theory since 1945.

42.348 CONTEMPORARY EUROPE CULTURE TOUR 3 sem. hrs.

Professionally guided study tour of Western Europe, usually scheduled in summers. Research paper required.

42.351 LATIN AMERICA: THE COLONIAL PERIOD 3 sem. hrs.

The extension of Iberian institutions to the New World and the acculturation process. Examination and evaluation of the economic, social and religious institutions of Portuguese and Spanish America in the colonial period, 1492-1823.

42.352 LATIN AMERICA: THE NATIONAL PERIOD 3 sem. hrs.

After a brief summary of the course and results of the revolutionary era, attention is devoted to the economic, social, and political development of individual nations.

42.356 THE BOLSHEVIK REVOLUTION 3 sem. hrs.

Survey of Russia from the beginning of the Russian State in the ninth century through the Kievan, Muscovite, and Imperial periods to the Bolshevik Revolution of 1917.

42.358 BLACK AFRICA 3 sem. hrs.

Survey of the transformation of the societies of Sub-Sahara Africa from colonialism to national independence.

42.362 THE ARAB WORLD 3 sem. hrs.

An introductory look at the Middle East, Islamic society and religion, the Arab-Israeli problem, and the politics of oil.

**42.372 COLONIAL AMERICA AND THE
WAR OF INDEPENDENCE 3 sem. hrs.**

European colonization in North America, with major attention to the establishment and development of England's thirteen colonies, an emerging American society, and the problems which created the conflict between the Americans and the British Empire resulting in the American War of Independence.

**42.373 THE UNITED STATES FROM
NATIONHOOD TO CIVIL WAR 3 sem. hrs.**

A study of forces contributing to nation building, democratization and reform in society; factors stimulating expansion; issues causing union; and travail of the Civil War.

**42.375 THE UNITED STATES FROM THE
CIVIL WAR TO WORLD POWER 3 sem. hrs.**

Major topics such as the Civil War, Reconstruction, the Gilded Age, Emergence of Big Business, Social Darwinism, Populism, Progressivism and World War I are selected for discussion.

**42.377 CONTEMPORARY UNITED STATES,
WORLD WAR I TO THE PRESENT 3 sem. hrs.**

Major themes such as Republican ascendancy, FDR and the New Deal, the Cold War, minority rights, violence in contemporary America, militarism, and the role of the individual in today's society are selected for discussion.

42.388 PENNSYLVANIA 3 sem. hrs.

Major contributions of Pennsylvania to national life; relations between state and national movements.

**42.391 DIPLOMATIC HISTORY OF THE
UNITED STATES TO 1898 3 sem. hrs.**

A critical analysis of United States foreign relations from the Colonial period to the 1898 war with Spain.

**42.392 DIPLOMATIC HISTORY OF THE
UNITED STATES SINCE 1898 3 sem. hrs.**

A critical analysis of United States foreign relations from the war with Spain in 1898 to the present.

42.397 INDEPENDENT STUDY 1-4 sem. hrs.

The topic selected must be approved by a committee appointed by the chairperson. Independent reading and/or research related to some aspect of history is supervised by an appropriate member of the department. A student may register for this course no more than twice and for a total which does not exceed four semester hours.

Prerequisite: 60 sem. hrs. college credit.

42.398 (399) RESEARCH AND WRITING SKILLS 3 sem. hrs.

Basic historical bibliography with exercises in location and use; analysis of problems and tools of research and a practical application of research methods.

42.401 CURRENT EVENTS IN HISTORICAL PERSPECTIVE 3 sem. hrs.

Selected topics from the headlines of the current year with their historical background and significance. Designed to fit the present world into a larger perspective and to develop a better understanding of historical forces at work.

Prerequisite: 3 sem. hrs. of history.

42.424 EUROPE 1914-1939; THE FIRST WORLD WAR AND THE AGE OF THE DICTATORS 3 sem. hrs.

The decline and fall of European hegemony in world affairs and the traditional standards of Western society under the impact of the "Great War" and the "Great Depression." The phenomenon of totalitarianism as it manifested itself in fascist Italy, Nazi Germany, and communist Russia.

Prerequisite: 42.113.

42.425 EUROPE SINCE 1939 3 sem. hrs.

A survey of the major European powers in the late 1930's, emphasizing the policies of the dictators leading to war; military and diplomatic developments of World War II and the causes of the East-West rift; the reconstruction of democracy in Europe; the formation of the Soviet bloc; European integration; important current political trends in the major power systems.

Prerequisite: 42.113.

42.452 (357) SOVIET RUSSIA 3 sem. hrs.

Critical analysis of the political, social, economic, and cultural evolution of the Soviet Union, and a study of Soviet foreign policy and international relations.

Prerequisite: 42.113.

42.453 PROBLEMS OF CONTEMPORARY LATIN AMERICA 3 sem. hrs.

Analysis of recent events or movements that may indicate recurrence of historical problems or major developments of international significance in selected countries of Latin America.

Prerequisite: 3 sem. hrs. of history.

**42.454 MODERN JAPAN: THE EMERGENCE
OF AN ASIAN SUPERPOWER 3 sem. hrs.**

An analysis of Japan's changing social, political, and economic strategies from the Meiji Restoration to the present, with a concise description of Japanese culture during the period.

Prerequisite: 42.113.

**42.456 TWENTIETH CENTURY MIDDLE EAST
AND NORTH AFRICA 3 sem. hrs.**

Intensive study of critical social, political and economic problems of the contemporary peoples and nations in these regions.

Prerequisite: 42.112 or 42.113.

42.471 THE GROWTH OF BUSINESS IN AMERICA 3 sem. hrs.

The industrialization of the American economy is traced within a broad social and political context. Major attention is directed toward the industrial revolution, the emergence of big business at the turn of the twentieth century, and the corporate revolution, and the place of major industries at mid-century.

Prerequisite: 3 sem. hrs. of history.

42.472 HISTORY OF LABOR IN THE UNITED STATES 3 sem. hrs.

Surveys the problems of labor from the colonial period to the present, with emphasis upon the development of unions and their role in national life.

Prerequisite: 3 sem. hrs. of history.

42.483 POPULAR CULTURE IN AMERICA 3 sem. hrs.

Thematic description and analysis of major forms of popular culture in America from Colonial times to the present. Subjects include literature, the arts, drama, decoration, and recreation.

Prerequisite: 3 sem. hrs. of history.



POLITICAL SCIENCE

Professors Robert L. Rosholt (Chairperson), Charles G. Jackson; Associate Professors Martin M. Gildea, Prakash C. Kapil, James W. Percey. Assistant Professor Richard L. Micheri.

Arts and Sciences major for the B.A. degree:

- Political Science 44.101;
- Political Science 44.161 or, if qualified, 44.181;
- One Course from 44.108, 308, 405, 409, 418, 492;
- One Course from 44.181, 366, 368, 371, 373, 383, 463, 464, 465, 487;
- Twelve semester hours elective in Political Science;
- Six semester hours elective in Political Science and/or cognate areas such as computer science, statistics, economics, sociology, social psychology, as approved by the adviser.

COURSES
(Code 44)

Note: When course numbers have been changed, the former numbers are placed in parentheses for reference.
† May be used toward the General Education requirement.

44.101 ELEMENTS OF POLITICAL SCIENCE † 3 sem. hrs.

An introduction to the nature, scope, approaches, and methodology of political science by means of an overview of political and governmental institutions, processes, theories and problems.

44.108 CONTEMPORARY POLITICAL IDEOLOGIES 3 sem. hrs.

An introduction to political ideas shaping the contemporary world: nationalism, liberalism, conservatism, anarchism, totalitarianism, capitalism, socialism, communism.

44.161 UNITED STATES GOVERNMENT † 3 sem. hrs.

An introduction to government and politics in the United States emphasizing constitutional development, political decision-making institutions and processes, and contemporary problems such as dissent, conflict, civil rights, and foreign policy.

44.181 CONTEMPORARY ISSUES IN
WORLD POLITICS † 3 sem. hrs.

An introduction to international politics through an examination of such critical problems as war and peace, East-West relations, nuclear disarmament, nation-building, and revolution.

44.303 POLITICS AND THE ARTS † 3 sem. hrs.

A survey of painting, music, films, poetry and novels, with emphasis on novels to show the relationships between these media and political concepts, philosophy and problems.

44.322 POLITICAL VIOLENCE 3 sem. hrs.

A survey of individual, group, and mass political violence, concentrating on causes and manifestations. Positive and negative effectiveness of political violence with the object of placing the phenomena in meaningful historical and contemporary contexts.

44.324 POLITICAL SOCIALIZATION 3 sem. hrs.

The process of socialization to political attitudes, values, and behaviors through socializing agents such as the family, elementary and secondary schools, peer groups, work groups, and the mass media studied in light of political, psychological and sociological concepts.

44.326 PARTIES, GROUPS AND PUBLIC OPINION 3 sem. hrs.

The development of political parties in the United States; elections, voter behavior, and political participation; the role of interest groups; political propaganda.

44.331 LEGAL AND POLITICAL ASPECTS OF BUSINESS 3 sem. hrs.

Designed to serve the needs of Political Science, Business, and Economics majors.

44.336 PUBLIC ADMINISTRATION THEORY 3 sem. hrs.

Administrative and organizational theory with an emphasis on structural-functional analysis; bureaucratic behavior; current developments.

44.338 CIVIL SERVICE EMPLOYMENT POLICIES AND PRACTICES 3 sem. hrs.

For political science majors and others interested in public service. Employment patterns of government, structure and function of personnel systems, and problems encountered in the public service.

44.351 STATE GOVERNMENT AND POLITICS 3 sem. hrs.

U.S. federalism; state constitutions; the organization and operation of state legislatures, executives, and judiciaries; party and group politics at the state level; current problems.

44.356 ENVIRONMENT AND POLITICS 3 sem. hrs.

An analysis of the political dimensions of contemporary environmental problems and policies and the search for new policies. Special emphasis on river basin planning and management.

44.366 POLITICAL SYSTEMS—EUROPE † 3 sem. hrs.

Politics and government in selected states including Great Britain, France, West Germany, and the Soviet Union; principles of comparative analysis.

44.368 POLITICAL SYSTEMS—LATIN AMERICA † 3 sem. hrs.

Constitutional and institutional structures; forces of stability and change including the military and the church; social and economic problems.

44.371 POLITICAL SYSTEMS—AFRICA † 3 sem. hrs.

Problems of newly independent states; the struggle for independence and attempts to create national unity in the face of traditional tribalism; economic and political development.

44.373 GOVERNMENT AND POLITICS IN CHINA AND INDIA 3 sem. hrs.

Politics and government in selected states with an emphasis on the forces which shape domestic and foreign policies and processes.

44.383 INTERNATIONAL RELATIONS 3 sem. hrs.

Sources of international conflict and cooperation; power politics in the international arena; problems of collective security and the settlement of disputes.

44.405 THE DEVELOPMENT OF POLITICAL THOUGHT 3 sem. hrs.

Selected political theorists from Plato to Nietzsche are compared with contemporary American political theorists in an attempt to build bridges between traditional and contemporary theories and theorists. Included are: Plato and Strauss, Thucydides and Max Weber, Aristotle and Lipset, Augustine and Morgenthau, Machiavelli and Neustadt, Rousseau and Dewey, Aquinas and Maritain, Hobbes and Riker, Burke and Lippmann, Marx and C. Wright Mills, and John Stuart Mill and Christian Bay.

44.409 AMERICAN POLITICAL THOUGHT 3 sem. hrs.

An analysis of the relationship of American political thought to contemporary political science by using traditional materials in a historical, chronological way but reworking them to show their relation and relevance to actions and institutions. Included are the main ideas of the leading political thinkers in America from the Colonial period to the present.

44.418 COMPUTER APPLICATIONS IN POLITICAL SCIENCE 3 sem. hrs.

An introduction to the principal computer languages used in political science and the social sciences (primarily FORTRAN) and the application of computers to political science research and problem solving.

44.429 BLACK POLITICS 3 sem. hrs.

An analysis of the role of Blacks in American politics, the Black Power movement, civil rights, and racial conflict.

44.437 PUBLIC ADMINISTRATION APPLICATIONS 3 sem. hrs.

An analysis of the methods and techniques in the application of administrative and organizational theory to the operations of governmental bureaucracies. Topics covered include: Planning-Program Budgeting Systems (PPBS), Program Evaluation Review Technique (PERT), and Operations Research (OR).

44.440 THE PRESIDENT AND CONGRESS 3 sem. hrs.

Presidential and congressional politics. Public policy-making roles. Executive-legislative relationships. Constitutional issues. Problem area and proposals for reform.

44.446 CONSTITUTIONAL LAW 3 sem. hrs.

An analysis of the evolution, structure and function of the Supreme Court, concentrating on a case study approach of the Court's interpretations of the commerce and taxing powers, federal-state relationships and civil rights.

44.448 THE JUDICIAL PROCESS 3 sem. hrs.

Judicial policy making is studied through systems theory, group theory, and judicial attitude and behavior.

44.453 LOCAL GOVERNMENT AND POLITICS 3 sem. hrs.

An analysis of the structure and function of city governments, decision-making in urban politics, groups and group conflict, metropolitics, the megalopolis, and contemporary problems of the American city.

44.458 U.S. FOREIGN POLICY 3 sem. hrs.

An analysis of the substance, methods, and purposes of U.S. foreign policy including the determinants of our foreign policy, policy making machinery, the implementation of our foreign policy, and contemporary foreign policy problems.

44.463 THE U.S.S.R. POLITICAL SYSTEM 3 sem. hrs.

The governmental process in the U.S.S.R.; the role of the Communist Party; the evolving ideology from Marx to the present; Soviet bloc politics.

44.464 GOVERNMENT AND POLITICS OF IRELAND I 3 sem. hrs.

A survey of historic, social, cultural, and religious developments in Ireland, with concentration on a study of the government and politics of Northern Ireland and the Irish Republic. Contemporary literature, drama, music, and art.

44.465 GOVERNMENT AND POLITICS OF IRELAND II 3 sem. hrs.

A study-tour of Northern Ireland and the Irish Republic including visits to museums, galleries, theaters, and historic sites and meetings with governmental and political leaders. Approximately half of the time is spent in Dublin, the remainder on a bus trip through the Republic and Northern Ireland.

44.487 INTERNATIONAL LAW AND ORGANIZATIONS 3 sem. hrs.

The theoretical and practical implications of the legal and organizational efforts to regulate inter-nation relations with emphasis on international law, the United Nations, the International Court of Justice, and regional and functional organizations.

44.490 INDEPENDENT STUDY IN POLITICAL SCIENCE 1-6 sem. hrs.

Designed primarily for individualized reading, research, and reporting under conditions of minimal supervision. Projects must have departmental approval and be under way by the end of the first week of a term.

44.491 READINGS IN GOVERNMENT AND POLITICS 3 sem. hrs.

Topics are selected on the basis of close consultations between instructor and student. Designed for either group or individual study.

44.492 SEMINAR IN GOVERNMENT AND POLITICS 3 sem. hrs.

Selected problems in government and politics are studied in an attempt to review and unify theories and methods of political science. Individual research projects are emphasized.

44.496 FIELD EXPERIENCE IN POLITICAL SCIENCE 1-6 sem. hrs.

Supervised individual or group activities, including internships of a non-classroom variety in applied areas of political science.

Prerequisite: Adequate theoretical background and consent of department.

SOCIOLOGY AND ANTHROPOLOGY

Professors Chang Shub Roh, Ralph R. Ireland; Associate Professors Joseph A. DeFelice, David E. Greenwald, James H. Huber, Jane J. Plumpis (Chairperson), Robert R. Reeder, Bernard J. Schneck, Robert R. Solenberger; Assistant Professors Christopher F. Armstrong, I. Sue Jackson, David J. Minderhout.

Arts and Sciences major for the B.A. degree:

Sociology major: 45.211, 460, 462, 466; 18 semester hours in sociology and/or anthropology elected by the student in consultation with the adviser.

For a concentration in social welfare, the student should include among the electives 45.233, 334, 336 and seek the adviser's recommendation for the remaining 9 semester hours of electives.

Sociology/Anthropology major: 46.100, 200; 45.211; 45.462 or 470; 45.460 or 48.260; 50.101 or 50.210; 12 semester hours elected from 45.213, 332, 466, 46.405, 440, 480, 490, 50.333, or other courses as recommended by the adviser and approved by the department chairperson.

COURSES

SOCIOLOGY

(Code 45)

45.211 PRINCIPLES OF SOCIOLOGY † 3 sem. hrs.

Basic characteristics of group behavior: organization of society and

culture; individual and community adjustment in the light of their origin, development, form, and functions.

45.213 CONTEMPORARY SOCIAL PROBLEMS † 3 sem. hrs.

Urgent social problems, and proposals offered for their solution. Topics include social change, personal maladjustment, social disorganization, mobility, families, and aging.

45.233 INTRODUCTION TO SOCIAL WORK † 3 sem. hrs.

An examination of modern welfare services, followed by a study of some of the methods by which social workers help to solve problems which range from adoption, and care for the aged, to marital counseling, parole supervision, and community organization.

45.315 RACIAL AND NATIONAL MINORITY GROUPS 3 sem. hrs.

An analysis of relations involving racial, national, and religious minorities in the United States. Emphasis is placed on efforts being made toward possible adjustments in existing relationships.

45.316 URBAN SOCIOLOGY 3 sem. hrs.

Analysis of origin and growth of the city in the U.S. with emphasis on ecological changes and the dynamic patterns of interaction on the contemporary scene.

Prerequisite: 45.211.

45.318 SOCIAL STRATIFICATION 3 sem. hrs.

A review and analysis of some of the major theories and research in social stratification and social mobility as related to ethnic and racial communities, religion, mental disorders, schools, marriage and the family, and socialization.

45.319 RELIGION AND SOCIETY 3 sem. hrs.

Analysis of the relationship between religion and social institutions and processes.

45.331 MARRIAGE AND THE FAMILY 3 sem. hrs.

Study of the traditional and social institutions of marriage and the family, current and transitional trends of the institution.

45.332 PERSONALITY IN CULTURE AND SOCIETY 3 sem. hrs.

Examination of cultural influences on the development of personality; analysis of personality differences in various cultures; explanatory hypotheses.

45.334 SOCIAL CASEWORK 3 sem. hrs.

Theories and techniques in modern social casework practice.

45.335 SOCIAL WELFARE SERVICES 3 sem. hrs.

An introduction to the public and private social welfare systems emphasizing the responsibilities of the social worker and the relationship between social work and the other professional disciplines.

45.336 CHILD WELFARE 3 sem. hrs.

An examination of child welfare services and the institutions which impinge upon the social functioning of children.

45.337 COMMUNITY ORGANIZATION PRACTICE 3 sem. hrs.

Community Organization Practice as a methodology of the social work profession is studied with respect to its relevant systems, theories, strategies, and practice principles.

45.341 CRIMINOLOGY 3 sem. hrs.

Theories of causes of crime, including physical type, differential association, psychiatric, etc. Volume, scope, and trends in crime; police, administration of justice, rehabilitation theory and practice.

45.350 INDUSTRIAL SOCIOLOGY 3 sem. hrs.

Work and the milieu of the worker; formal and informal organizations in industry; problems of the worker; industrial morale and teamwork; social adjustment of the worker; and the relation of industry to the community and society.

45.441 SOCIAL INDICATORS 3 sem. hrs.

This course is designed to reinforce and extend earlier learning in research techniques and methods by focusing upon systematic step-by-step understanding, analysis and preparation of social indicators at the Federal, State, and local levels of social policy planning and analysis. The emphasis is on developing student understanding of social indicators and their use in planning within the five county region.

45.442 JUVENILE DELINQUENCY 3 sem. hrs.

Examination of social pressures operative upon children in American society which leads to formation of delinquent personality. Consideration of treatment and prevention, juvenile courts, clinics and correctional institutions.

45.443 SOCIOLOGY OF DEVIANT BEHAVIOR 3 sem. hrs.

Social prescriptions that groups place on tolerable and intolerable behavior; the necessity of such proscriptions, the means of enforcing them, the problem of enforcing and punishing the deviant. It is *not* a course in crime and delinquency but an attempt to understand the sociological significance of the concept "deviance" and its application in various social settings.

**45.450 COMMUNICATION THEORY IN SOCIAL
WORK PRACTICE 3 sem. hrs.**

Analysis and application of concepts from communication, information, and systems theory to social work practice.

45.457 SOCIOLOGY OF COMMUNITY LIFE 3 sem. hrs.

A review and examination of theories and research of the community, with special emphasis on the impact of social change upon rural-urban community life in this five county region.

45.460 BASIC SOCIAL STATISTICAL METHOD 3 sem. hrs.

Introductory principles and techniques of statistical analysis with emphasis on application to sociological data; collection and tabulation of data; probability; inference and estimation; measures of dispersion; sampling and correlation.

45.461 SOCIAL PROBLEMS IN RURAL-URBAN COMMUNITIES 3 sem. hrs.

Social problems which are peculiar to and characteristic of rural and small urban communities. An eclectic theoretical interpretation is made of the major problems with emphasis on those which result in the dysfunctioning of patterned social relationships.

45.462 SOCIOLOGICAL THEORY 3 sem. hrs.

An examination of the classical and modern forms of sociological theory.

45.465 ADVANCED METHODS OF RURAL-URBAN ANALYSIS 3 sem. hrs.

Probability theory, sampling, and statistical inference applicable to rural-urban area analysis. Emphasis is placed on the problem involved in researching the changing social composition of rural-urban communities.

45.466 SOCIAL RESEARCH 3 sem. hrs.

Methods and techniques in social science research. Preparation of social research projects, questionnaires, sampling, interviews, etc. Introduction to methods of analysis and interpretation of data.

Prerequisite: 45.211 and 45.460 or equivalent.

45.467 HUMAN POPULATION STUDY 3 sem. hrs.

Distribution of population, its composition, and other characteristics; size, trend, growth and future developments of population; impact of population problems as influenced by processes of fertility, mortality, and migration.

45.468 SOCIAL SERVICE PLANNING 3 sem. hrs.

Social context of the theories and practices of social planning, social policy and social services from contemporary and cross-cultural perspectives.

45.470 SENIOR SEMINAR 3 sem. hrs.

Individual research projects and reports within selected areas of interest such as the family, criminology, social stratification, and ethnic minorities.

Prerequisite: 18 hours of sociology including 45.460 and 45.466, and permission of the department chairperson.

45.471 INDEPENDENT STUDY 1-6 sem. hrs.

Designed specifically for the student who wishes to pursue individual

alized instruction in depth with the faculty member in a specific area of the field.

Prerequisite: 45.211, 45.460, 45.462, 45.466 and permission of the Department Chairperson.

45.473 SOCIAL DESIGN AND THE RURAL-URBAN COMMUNITY 3 sem. hrs.

A seminar discussion of methodology relevant to rural-urban social community design. Each student participates for one session in which the individual discusses a piece of design work which he/she deems valuable in the design of communities and which arises from his/her particular interests.

45.474 CONTEMPORARY ENVIRONMENTAL ISSUES 3 sem. hrs.

Some major human problems that lead to general environmental deterioration and resource depletion related to the probable affects of increasing population density within rural-urban communities within our five county area.

45.475 SEMINAR IN SCIENCE, TECHNOLOGY, AND THE RURAL-URBAN ENVIRONMENT 3 sem. hrs.

This course will examine the interdependence between science and technology and the relationship of these twin processes of social change and rural-urban community development.

45.476 SOCIOLOGY OF SCIENCE 3 sem. hrs.

This course is designed to provide a general treatment of science as a social phenomenon. Major emphasis is on the essentially social nature of science, its socio-historical development as an institution, and its social organization as it exists within modern society.

45.477 COMMUNITY LAND USE PLANNING 3 sem. hrs.

This course is designed to expose the student to the planning process and the theoretical perspectives relevant to community land use planning. Selected substantive planning problem areas in the local community will be examined. Students are expected to formulate, develop and present a community land use plan as the culmination of the course experience.

45.496 INTERNSHIP PROGRAM 1-15 sem. hrs.

Designed primarily for the Junior or Senior student working in a specific institutional field and/or the College-approved off-campus activities related to the student's chosen professional field.

Prerequisite: 45.211, 45.460, 45.462, 45.466 and permission of the Department Chairperson.

45.497 SOCIOLOGY FIELD WORK EXPERIENCE 1-6 sem. hrs.

Placement in community agencies for supervised field work experience under the guidance of professional sociologists, social workers, and/or other mental health specialists and educators. On-campus seminars provide a framework of psycho-social theory, skills, and professional ethics.

Prerequisite: 45.233 and permission of the instructor.

ANTHROPOLOGY

(Code 46)

46.100 GENERAL ANTHROPOLOGY 3 sem. hrs.

The study of the emergence and development of man, the biological basis of human culture and society, and the origins of the social units of fossil man.

46.200 PRINCIPLES OF CULTURAL ANTHROPOLOGY † 3 sem. hrs.

Man's bio-cultural development and cultural achievement. The function of elements and configurations of material and non-material culture in meeting human needs. Cultural processes are the role of culture in personality formation.

46.301 FIELD ARCHAEOLOGY I 3 sem. hrs.

Field investigation of various aboriginal cultures which have occupied the valley of the North Branch of the Susquehanna River since the glacial age. Emphasis on excavation of sites in this area, preceded by orientation to stratigraphic and recording techniques.

46.302 FIELD ARCHAEOLOGY II 3 sem. hrs.

Intensive study of problems encountered in archaeological research of prehistoric cultures, as revealed by excavation and comparative study of finds.

46.320 CONTEMPORARY WORLD CULTURES 3 sem. hrs.

Comparative analysis of selected non-European societies in contrasting cultural and natural areas. Stresses on the natural and social environment, national character, religion and world view, and literary, artistic, and musical expression.

46.340 PREHISTORY AND ETHNOGRAPHY OF NORTH AMERICA 3 sem. hrs.

Survey of the native cultures of North America in prehistoric and early historic periods. Includes Indians and archeology of Pennsylvania.

46.410 PRIMITIVE ARTS 3 sem. hrs.

Graphic arts, literature, music, and the dance of ancient and non-European cultures.

46.411 COMPARATIVE RURAL-URBAN SYSTEMS 3 sem. hrs.

A cross-cultural analysis of rural-urban interaction. The course looks into the rise of cities as well as into traditional and modern trends in urbanization in order to discover general principles about rural-urban relations. Among the topics to be discussed are rural-urban economic patterns, political and social class structure, and comparative social organization in contiguous rural and urban communities. At least one non-Western rural-urban system is discussed in detail.

46.430 CULTURES AND PEOPLES OF OCEANIA 3 sem. hrs.

Review of the types of aboriginal culture and the distribution of lan-

guages and physical types in the Pacific-Island world; archaeological evidence and migration routes from Malaysia to Melanesia and Polynesia.

46.440 LANGUAGE AND CULTURE 3 sem. hrs.

A study of the place of oral and non-oral language in human evolution and contemporary cultures. Topics discussed include dialectal variation, discourse analysis, multi-lingualism, language and cognition, and the role of language in education.

46.450 PEOPLES AND CULTURES OF SOUTH AMERICA 3 sem. hrs.

A survey introduction to the aboriginal, non-literature cultures of South America, including the ecological background, archaeology, and cultural patterns.

46.470 HISTORY OF ANTHROPOLOGICAL THOUGHT AND THEORY 3 sem. hrs.

This course surveys intensively the leading methods and theories of anthropological and ethnological interpretation, with special emphasis on the concept of culture and its practical application to modern problems.

46.480 RELIGION AND MAGIC 3 sem. hrs.

A comparative analysis of the origins, elements, forms and symbolism of religious beliefs and behavior; the role of religion in society with particular reference to nonliterate societies. Anthropological theories and methods of religion, both historical and contemporary.

46.481 CULTURAL DYNAMICS 3 sem. hrs.

Anthropology examines the modern world with emphasis on emerging new patterns of western and international culture. Study of the impact of mass society and technology on the animal, man, and prospects for the future.

46.490 SOCIALIZATION OF THE CHILD IN PRIMITIVE SOCIETY 3 sem. hrs.

Life experience and adjustment of the individual through infancy, middle childhood and youth. Contrasting methods of introducing children to adult economic, social and religious activities.



PSYCHOLOGY

Professors Michael W. Gaynor (Chairperson), Martin A. Satz, J. Calvin Walker; Associate Professors John S. Baird, Donald R. Bashore, Donald A. Camplese, Robert B. Hessert; Assistant Professors Steven L. Cohen, Michael M. Levine, L. Richard Larcom, Alex Poplawsky, Constance J. Schick.

Arts and Sciences major for B.A. degree:

Psychology 48.101, 260, and 261 plus 21 semester hours elective in psychology with one course in each of five categories, defined by the department, for a minimum of 31 hours. 48.271 will not count toward an Arts and Science major in psychology.

Note: Where course numbers have been changed, the previous numbers are placed in parentheses for reference.

COURSES

(Code 48)

48.101 GENERAL PSYCHOLOGY † 3 sem. hrs.

Psychology is viewed as a system of scientific inquiry into the nature and behavior of man. Major concepts, principles and processes concerned with man's functioning as an individual and as a social being.

48.211 CHILD PSYCHOLOGY † 3 sem. hrs.

A study of normal development and the interrelationships among various aspects of biological, cognitive, personality and social factors. Emphasis on prenatal to adolescent development.

48.231 (331) PSYCHOLOGY OF ADJUSTMENT † 3 sem. hrs.

Personal and social meaning of adjustment. An operational approach to mental health is taken, including such concepts as anxiety, frustration, conflict, aggression and defense.

Prerequisite: 48.101.

48.260 BASIC STATISTICS † 3 sem. hrs.

An introduction to fundamental statistical concepts and principles, providing a foundation for research methodology for students who need not be mathematically inclined. Computation, interpretation, and application of commonly used descriptive, correlation, and inferential statistical procedures for analyzing data. 2 hrs. lecture, 2 hrs. laboratory/week.

48.261 EXPERIMENTAL PSYCHOLOGY 4 sem. hrs.

Survey of psychology as a laboratory science; concepts, methodology, techniques and areas of study. Laboratory period provides practical experience, 3 class hours, 3 laboratory hours.

Prerequisite: 48.101 and 48.260.

48.271 EDUCATIONAL PSYCHOLOGY 3 sem. hrs.

Principles of psychology as applied to the classroom. Emphasis is upon learning processes as affected by environmental, experiential, and developmental factors.

Prerequisite: 48.101.

48.311 ADULTHOOD AND AGING †3 sem. hrs.

A study of development of adults in our culture. Topics include the effects of the social environment on aging, special problems of aging, sex differences during adulthood, vocational, marital and familiar development, and the psychology of death and dying. Emphasis is placed on human behavior between young adulthood and senescence, with particular emphasis on the aging process.

Prerequisite: General Psychology.

48.321 PSYCHOLOGICAL TESTS AND MEASUREMENTS 3 sem. hrs.

An introduction to the logic of psychological measurement, emphasizing the applied and practical aspects of psychological testing through classroom exercises in administering, scoring, and interpreting test results. Provides student with background for test evaluation.

Prerequisite: 48.101, 48.260.

48.335 (431) ABNORMAL PSYCHOLOGY 3 sem. hrs.

A survey of classification, psychodynamics, treatment and prognosis of mental disorders. Emphasis is placed on the characteristics of these disorders, their etiology, and various approaches to treatment and remediation.

Prerequisite: 48.101.

48.351 SOCIAL PSYCHOLOGY 3 sem. hrs.

The study of interpersonal behavior—how individuals affect and are affected by others—with emphasis on affiliation, inter-personal perception and attraction, group behavior and conformity, attitude change and compliance.

Prerequisite: 48.101.

48.353 INDUSTRIAL PSYCHOLOGY 3 sem. hrs.

A study of behavior principles, techniques of investigation and methods of evaluating possible solutions to human relations problems such as morale, leadership, productivity, selection, placement, training, job design, motivation, fatigue, job satisfaction and organizational structure and functions, found in industry and government.

Prerequisite: 48.101.

48.356 (456) PSYCHOLOGY OF MOTIVATION 3 sem. hrs.

A survey of the fundamental determinants of human and animal activity. Theories, research methodologies, and experimental evidence related to the activation and direction of behavior.

Prerequisite: 48.101, 48.260, 48.261, or consent of instructor.

48.375 PSYCHOLOGY OF LEARNING 3 sem. hrs.

Theoretical and experimental bases of learning in animal and human behavior. Situational and drive factors affecting learning, stimulus generalization and discrimination, retention, and forgetting.

Prerequisite: 48.101, 48.260, 48.261, or consent of instructor.

48.376 APPLIED LEARNING PRINCIPLES 3 sem. hrs.

The application of learning principles to modify behavioral disorders encountered in both individualized and institutionalized settings.

48.380 PHYSIOLOGICAL PSYCHOLOGY 3 sem. hrs.

A study of the relationship between psychological processes and physiological activity. Neurological and biochemical bases of behavior with emphasis upon the synergistic functions of the nervous system, sense organs, and glandular system.

Prerequisite: 48.101, 48.260, 48.261, or consent of instructor.

48.401 FOUNDATIONS OF CONTEMPORARY PSYCHOLOGY 3 sem. hrs.

A study of the historical development of modern psychology. Compares present-day models of behavior within a historical framework.

Prerequisite: 48.101 and consent of instructor. (Offered fall semester only.)

48.406 PSYCHOLOGY SEMINAR 2 or 3 sem. hrs.

An advanced consideration of significant topics in psychology. Reports and discussions of current research.

Prerequisite: 21 hrs. in psychology and consent of instructor.

48.416 PROBLEMS OF ADOLESCENCE 3 sem. hrs.

Advanced study of personal and social problems confronting adolescents as they emerge from childhood and strive for adulthood.

Prerequisite: 48.101 and 48.211.

48.436 THEORIES OF PERSONALITY 3 sem. hrs.

Critical study of theories explaining development, structure and organization of personality. Considers personality from psychoanalytic, social, individual, self and learning points of view.

Prerequisite: 48.101 and consent of instructor.

48.439 INTRODUCTION TO CLINICAL PSYCHOLOGY 3 sem. hrs.

A survey of clinical psychology and the role of the clinical psychologist in community and hospital mental health programs, clinical assessment and diagnosis; and examination of concepts in and models of psychotherapy.

Prerequisite: 48.335 or consent of instructor.

48.451 LABORATORY TRAINING IN GROUP PROCESSES 3 sem. hrs.

An examination of theories of interpersonal interaction, the development of self-concepts, and the formation and development of group cul-

tures. Class size limited to 20 students.

Prerequisite: Consent of instructor in 48.101 and 48.351, or six semester hours in Sociology.

48.452 PERSONNEL PSYCHOLOGY AND HUMAN RELATIONS 3 sem. hrs.

A study of behavior principles, techniques of investigation and methods of evaluating possible solutions to human relations problems such as morale, leadership, productivity, selection, placement, training, job design, motivation, fatigue, job satisfaction and organizational structure and functions, found in industry and government.

48.454 PSYCHOLOGICAL STUDY OF SOCIAL ISSUES 3 sem. hrs.

Selected social issues (e.g., conflict, social change) studied in terms of intra-individual processes and of interactive processes between the individual and society. Emphasis on research findings and theory as to possible alternatives or solutions to current practices.

Prerequisite: 48.101, 351, and 436 or consent of instructor; 48.261 recommended.

48.462 ADVANCED EXPERIMENTAL PSYCHOLOGY 3 sem. hrs.

Literature search, experimental design, modern methodology, instrumentation, and data analysis for in-depth study of psychological variables culminating in individual research.

Prerequisite: 48.101, 260, 261 and consent of instructor.

48.464 ADVANCED EXPERIMENTAL DESIGN 3 sem. hrs.

An advanced consideration of the planning, conduct, and evaluation of research in the behavioral and biological sciences, employing parametric and non-parametric statistics. Emphasis on inferential statistics, design, analysis, and interpretation.

Prerequisite: 48.101, 260, 261 or consent of instructor.

48.466 INDEPENDENT STUDY 1-3 sem. hrs.

The study of a topic via either review and research of technical psychological literature or empirical manipulation of variables in the field or laboratory under supervision of a Psychology faculty member resulting in a written report of its outcome.

Prerequisite: Consent of instructor and departmental approval.

48.471 (273) PSYCHOLOGY OF PERCEPTION 3 sem. hrs.

A systematic examination of sensory and perceptual processes including perceptual development, adaptation, and social perception. Emphasis on experimental methods, results, and theoretical interpretations of perceptual phenomena.

Prerequisite: 48.101, 260, 261 or consent of instructor.

48.497 (499) PRACTICUM IN PSYCHOLOGY 3-12 sem. hrs.

An introduction to psychology as a profession, with opportunity provided for study, observation, and practice in the setting of a community agency. May be repeated for a total of 12 semester hours.

Prerequisite: nine hours in psychology and/or consent of instructor.

GROUP III: NATURAL SCIENCES AND MATHEMATICS

BIOLOGY

Professors James E. Cole, Phillip A. Farber, Michael Herbert, Craig L. Himes (Chairperson), Julius R. Kroschewsky, Thomas R. Manley, Louis V. Mingrone, Donald D. Rabb, Joseph P. Vaughan; Associate Professors George J. Gellos, Stanley A. Rhodes, Robert G. Sagar; Assistant Professors Judith P. Downing, John R. Fletcher, Frederick C. Hill.

Arts and Sciences major for the B.S. degree:

Biology 50.210, 220, 332, 351, 380; 50.331 or 361 or 362; 50.371 or 372; Chemistry 52.101 and/or 102; 113, 231, 232, and two additional chemistry courses (7 or 8 sem. hrs.) to be selected from 52.122, 233, 311, 312; Physics 54.111, 112 or 54.211, 212; Mathematics 53.141 and 123, or 125 and 126; Foreign Language: 6 to 8 sem. hrs. in German, French, Russian or Spanish or by passing a proficiency examination.

Arts and Sciences major for the B.A. degree:

Biology 50.210, 220, 332, 351, 380; 50.371 or 372; Chemistry 52.101 and/or 102; 52.113, 211, 233 or 52.231, 232; Mathematics 4 sem. hrs. to be selected from 53.123, 141, 171, 172; Foreign Language: 6 to 8 sem. hrs. in German, French, Russian or Spanish or by passing a proficiency examination.

COURSES

(Code 50)

Courses marked † may be applied toward General Education.

50.101 GENERAL BIOLOGY I † 3 sem. hrs.

Major concepts and principles of biology relating to man and his environment. Lecture and discussion. Not for biology majors.

50.102 GENERAL BIOLOGY II † 3 sem. hrs.

The plant and animal kingdoms are studied from the ecological evolutionary aspect, equating man's influence and association. Not for biology majors.

Prerequisite: 50.101 or consent of instructor.

50.111 GENERAL BIOLOGY I: LABORATORY † 1 sem. hr.

An optional audio-tutorial laboratory program correlated with 50.101. 2 hrs. laboratory/week.

Prerequisite: 50.101 (may be taken with or following 50.101).

50.112 GENERAL BIOLOGY II: LABORATORY † 1 sem. hr.

An optional laboratory program correlated with 50.102. Includes discussion of the lectures.

Prerequisite: 50.102 (may be taken concurrently).

50.173 (373) ANATOMY AND PHYSIOLOGY I 3 sem. hrs.

An integrated study of the structure and function of the human body designed principally for students in health sciences. The Cell, Integration of Structure and Function, Skeletal System, Muscular System, Nervous System, Senses; Skin, Circulatory System and Lymphatic System. 2 hrs. lecture, 3 hrs. laboratory per week.

(Not applicable toward a major in biology.)

50.174 (374) ANATOMY AND PHYSIOLOGY II 3 sem. hrs.

Respiratory System, Digestive System, Metabolism, Nutrition, Excretion, Reproductive System, The Endocrine Glands. 2 hrs. lecture, 3 hrs. laboratory per week.

(Not applicable toward a major in biology.)

Prerequisite: 50.173.

50.210 GENERAL ZOOLOGY † 4 sem. hrs.

Fundamental principles of zoology as applied to representative groups of invertebrate and vertebrate animals. Laboratory work emphasizes the development, anatomy, physiology and behavior of representative animals. 3 hrs. lecture, 3 hrs. laboratory/week.

50.220 GENERAL BOTANY † 4 sem. hrs.

Fundamental principles of taxonomy, anatomy, morphology, physiology, and genetics as applied to the plant kingdom. 3 hrs. lecture, 3 hrs. laboratory/week.

50.230 HUMAN SEXUALITY 3 sem. hrs.

Anthropological, biological, physiological and sociological aspects of sex. Discussion of sexual competence and the role of sex in society.

Prerequisite: 8 hours of Biology or consent of the instructor.

50.311 INVERTEBRATE ZOOLOGY † 3 sem. hrs.

The principal phyla of invertebrate animals are studied in relation to their anatomy, classification, and their role in the ecosystems in which they participate. 2 hrs. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.210.

50.312 VERTEBRATE ZOOLOGY † 3 sem. hrs.

The biology of the vertebrate animal, emphasizing morphology, physiology, embryology, and behavior. Evolutionary and ecological aspects of each class. Laboratory work with living and preserved specimens to familiarize the student with representative individuals of the major classes of this group. 3 hrs. lecture, 2 hrs. laboratory/week.

Prerequisite: 50.210.

**50.321 COMPARATIVE BIOLOGY OF
NON-VASCULAR PLANTS † 3 sem. hrs.**

Phylogenetic study of major non-vascular plants with emphasis on development, structure, reproduction and selected ecological aspects. 2 hr. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.220.

50.322 COMPARATIVE BIOLOGY OF VASCULAR PLANTS † 3 sem. hrs.

Structure, function and biosynthesis of the major chemical constituents found in vascular plants. 2 hrs. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.220.

50.331 (371) EMBRYOLOGY † 3 sem. hrs.

Patterns, processes, and principles of animal development. Laboratory studies comprise maturation and organization of germ cells, and developmental processes of a number of animal types, including several types of living embryos. 2 hrs. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.101 or 210 or consent of the instructor.

50.332 GENETICS † 3 sem. hrs.

Mechanisms of heredity in animals and plants; Mendelian inheritance, probability, linkage, crossing over, chromosomal modifications, nucleic acids and gene action. 3 hrs. lecture, 2 hrs. laboratory/week.

Prerequisite: 50.210 or 50.101 and 102.

50.333 HUMAN GENETICS † 3 sem. hrs.

Principles of human genetics and their application to problems in biology, medicine, psychology, special education, anthropology, and sociology. Open to majors and non-majors. 3 hrs. lecture/week.

Prerequisite: 50.101 or 102 or consent of instructor.

50.341 (361) MICROBIOLOGY † 3 sem. hrs.

Cytology, nutrition, cultivation, and metabolism of bacteria, viruses and fungi; their distribution in nature and their beneficial and harmful activities. 1 hr. lecture, 4 hrs. laboratory/week.

Prerequisite: 6 hours of laboratory science.

50.342 MEDICAL MICROBIOLOGY † 3 sem. hrs.

An introductory course for students in health sciences program. Procedures used for specimen collections, cultivation, isolation, and identification of clinically significant pathogenic micro-organisms. 2 hrs. lecture, 3 hrs. laboratory/week.

50.343 IMMUNOLOGY 3 sem. hrs.

A lecture course: responses to infectious agents, immunochemistry, immunobiology, clinical laboratory applications, tissue transplantation and blood transfusion.

50.351 (331) GENERAL ECOLOGY 3 sem. hrs.

Principles and concepts pertaining to energy flow; limiting factors, habitat studies, succession patterns, and population studies at the species, interspecies, and community level. 2 hrs. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.210 and 220 or consent of instructor.

50.352 (417) FIELD ZOOLOGY † 3 sem. hrs.

Common vertebrates (excluding birds) of North America, with em-

phasis on the observation, collection, and recognition of local fauna. 2 hrs. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.210 or consent of instructor. Not applicable toward a major in biology.

50.353 (432) FRESH WATER BIOLOGY † 3 sem. hrs.

The biology of streams, lakes and ponds; their relationship to health and welfare. 2 hrs. lecture, 3 hrs. laboratory/week.

50.354 (453) SOCIAL IMPLICATIONS OF BIOLOGY † 3 sem. hrs.

Biology as related to contemporary problems: population, food, environments, etc. The course is directed toward concern with the state of biology in modern times. 3 hrs. lecture/discussion/week.

Not applicable toward a major in biology.

50.361 (482) COMPARATIVE VERTEBRATE ANATOMY † 3 sem. hrs.

A comparative study of the chordates, emphasizing the vertebrate classes, particularly as to structure, morphogenesis, functional adaptations and evolutionary trends. In the laboratory, emphasis is placed on the lamprey, shark, cat, sheep heart and brain, and living frog larvae, rats, and rabbits. 2 hrs. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.101 or 210 or consent of instructor.

50.363 (422) PLANT TAXONOMY † 3 sem. hrs.

Identification and classification of seed plants represented in local flora. 2 hrs. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.220, or 102 or consent of the instructor.

50.364 (471) VERTEBRATE HISTOLOGY † 3 sem. hrs.

A study of vertebrate tissues from various body systems. Laboratory studies include the use of prepared slides, color photomicrographs, and basic histological techniques. 2 hrs. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.210. *Recommended prerequisite:* 50.361.

50.365 HISTOLOGICAL AND HISTO-CHEMICAL TECHNIQUES 3 sem. hrs.

A laboratory course designed to provide theory and practice in the use of histological and histochemical techniques. Fixation, preparation, embedding, sectioning and staining of various animal tissues. 1 hr. lecture/4 hrs. laboratory/week.

Prerequisite: 50.364, and Chemistry 52.211 or 231 or consent of instructor.

50.366 ANATOMY & PHYSIOLOGY: HEAD, NECK, AND THORAX 3 sem. hrs.

Anatomy, physiology, neurology and development of the head, neck and thorax. Special emphasis is given to relationship to speech and hearing.

50.371 (381) VERTEBRATE PHYSIOLOGY † 3 sem. hrs.

The functions of tissues, organs, and systems and their chemical integration. Emphasis on mammalian circulation, respiration, digestion, metab-

olism, renal function, reproduction, and endocrines. 2 hrs. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.210 or consent of instructor.

50.372 (420) PLANT PHYSIOLOGY † 3 sem. hrs.

An introduction to plant function including discussions of water relations, carbohydrate metabolism and translocation, photosynthesis, mineral nutrition, plant growth hormones, and growth and development. 2 hrs. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.220; Chem. 52.211 or 231; or consent of instructor.

50.380 (490) BIOLOGY SEMINAR 1 sem. hr.

An informal discussion course for consideration of important topics in modern biology. One hour per week.

50.390 (492) RESEARCH TOPICS IN BIOLOGY 1 to 6 sem. hrs.

Familiarization and application of techniques necessary to prepare an in-depth study of some phase of biology.

Prerequisite: Consent of instructor; 12 hrs. in Biology.

50.411 (452) RADIATION BIOLOGY 3 sem. hrs.

Effects of radiation on living organisms; nuclear structure; fundamental properties of radiation; physical, chemical, and genetic effects on plants and animals from cells to whole organisms; application of radiochemicals in biological studies.

Prerequisite: Chem. 52.232 or 233; Math 53.141; or consent of instructor.

50.431 (441) EVOLUTION † 3 sem. hrs.

A study of the major problems of the theory of evolution and contributions toward their solutions made by genetics, paleontology, systematics, and ecology. 3 hrs. lecture/week.

Prerequisite: 50.332.

50.432, 433, 434 STUDIES IN SPECIATION † 3 sem. hrs.

A study of plants and animals in areas where biotas merge giving rise to interspecific hybridization (sequelae). A field course conducted in areas designated. Areas of study determined by student's needs.

432—Studies in Florida-Georgia Suture Zone and Sub-tropical biotas of Florida.

433—Central Texas, Southern Rocky Mountain Sonoran, Suture Zones, Mountains of New Mexico and Arizona.

434—Northern Rocky Mountain and Pacific Rocky Mountain Suture Zone.

Prerequisite: 50.431 or permission of the instructor. Students may not take more than two of the three areas of study for credit.

50.441 (443) CYTOLOGY AND CYTOGENETICS 3 sem. hrs.

Structure and function of cytoplasmic and nuclear organelles of cells. Laboratory studies include techniques for cell, chromosome, and tissue preparation. 2 hrs. lecture, 2 hrs. laboratory/week.

Prerequisite: 50.332 or 333; Chem. 52.211 or 231 or consent of instructor.

50.454 ETHOLOGY † 3 sem. hrs.

Description and classification of behavior (animal), its evolution and biological function. Mechanisms underlying behavior, especially species-typical behavior, are emphasized. 3 hrs. lecture, 2 hrs. laboratory/week.
Prerequisite: 50.210 and 371 or consent of instructor.

50.455 ENVIRONMENTAL MICROBIOLOGY 3 sem. hrs.

Practical application of knowledge of micro-organisms; their effects on our environment; methods of control; sanitation regulations and testing procedures. Field trips taken when practical. 1 hr. lecture, 4 hrs. laboratory/week.
Prerequisite: 50.341 or consent of instructor.

50.459 ORNITHOLOGY † 3 sem. hrs.

Biology of birds and the study of bird identification in the field by song and sight. Study of birds of this region in relation to migration, time of arrival and nesting. 2 hrs. lecture, 3 hrs. laboratory/week.
Prerequisite: 50.210 or 102.

50.463 BIOLOGICAL PHOTOGRAPHIC TECHNIQUES 3 sem. hrs.

Theory and practice of photography as applied to biology, including negative and print making, gross specimen photography, copying, transparencies, film-strips, autoradiography, nature work in close-ups, photomicrography, thesis illustrations, and other special techniques. 2 hrs. lecture, 3 hrs. laboratory/week.

50.472 CELL PHYSIOLOGY † 3 sem. hrs.

Application of physical and chemical principles to cellular processes; biochemistry of cellular constituents; physiochemical environment; bioenergetics; intermediate metabolism. 3 hrs. lecture/discussion/week.
Prerequisite: 12 hours of Biology and Chemistry 52.211 or 52.231; or consent of instructor.

EARTH SCIENCE

Faculty: See Geography.

Arts and Sciences major for the B.A. degree:

Earth Science 51.101, 102, 253, 255, 259; plus 3 additional courses elected from 51.105, 361, 362, 365, 369, 468, 475, and approved courses offered by the Marine Science Consortium; Mathematics 53.112; 53.113 or 53.123; Chemistry 52.102, 113; Physics 54.111, 112.

A maximum of 9 semester hours from the Marine Science Consortium may be applied.

See Marine Science (55) for additional electives in Earth Science.

COURSES

(Code 51)

Note: When course numbers have been changed, the former numbers are placed in parentheses for reference.

Courses marked † may be applied toward the General Education requirement. Other Earth Science courses may also be applied provided one of the marked courses has been taken.

51.101 (357) PHYSICAL GEOLOGY † 4 sem. hrs.

A study of the landscape in relation to the structure of the earth's crust; agents at work to change landforms; classification and interpretation of rocks. 3 hours class and 2 hours laboratory/week.

51.102 (361) HISTORICAL GEOLOGY † 4 sem. hrs.

Earth history as interpreted from rock and fossil evidence, with emphasis on continuous evolution of the earth and life on it. 3 hours class and 2 hrs. laboratory/week.

51.105 ENVIRONMENTAL GEOLOGY † 3 sem. hrs.

Application of geologic principles to the environment. Emphasis is on earth processes influencing man, engineering properties of rocks and soils, and the environmental implication of earth resources.

51.253 (453) ASTRONOMY 3 sem. hrs.

Physical characteristics and motions of the solar system; interesting phenomena of our galactic system and those of extragalactic space; study of constellations.

51.255 (355) METEOROLOGY 3 sem. hrs.

A study of the atmosphere and of laws and underlying principles of atmospheric changes. 2 hours class and 2 hours laboratory/week. Students having taken 41.125 may not enroll in or receive credit for 51.255.

51.259 (359) OCEANOGRAPHY 3 sem. hrs.

Introduction to the geologic, chemical, and physical aspects of the ocean basins. Emphasis is on ocean basin structure, topographic features, wave motion, current circulation, and methods of investigation. One week-end field trip is required.

51.355 SYNOPTIC METEOROLOGY 3 sem. hrs.

Observation and analysis of data for understanding and predicting the complexities of the atmosphere.

Prerequisite: 51.255 or consent of instructor.

51.361 MINERALOGY 4 sem. hrs.

Origin, occurrence, and identifying characteristics of common minerals. Both megascopic and microscopic techniques are stressed. 3 hours class and 2 hours laboratory/week.

51.362 PETROLOGY 4 sem. hrs.

Megascopic and petrographic analysis and identification of rocks with emphasis on field occurrences and association. 3 hours class and 2 hours laboratory/week.

Prerequisite: 51.361.

51.365 GEOMORPHOLOGY 4 sem. hrs.

Geomorphic processes and land forms with particular emphasis on their relationship to underlying rock lithologies and structures. 3 hours class and 2 hours laboratory/week. Students having taken 41.253 may not enroll in or receive credit for 51.365.

51.369 STRUCTURAL GEOLOGY 4 sem. hrs.

An analysis of rock deformation based upon the principles of rock mechanics and the utilization of data from field investigations. 2 hours class and 2 hours laboratory/week.

51.451 FIELD TECHNIQUES IN EARTH SCIENCE 6 sem. hrs.

Intensive field and laboratory training in the use of equipment and techniques in the areas of geology, hydrology, and cartography. Field trips are integral and vital segments of the course.

Prerequisite: 15 hours in Earth Science courses or consent of instructor.

51.453 PROGRAMMING AND OPERATION OF THE PLANETARIUM 3 sem. hrs.

An intensive study in the methods of effective educational use of the planetarium as a teaching and motivational device as well as supervised training and practice in the operation, use, and maintenance of the planetarium equipment.

51.468 (368) STRATIGRAPHY AND SEDIMENTATION 4 sem. hrs.

Processes and agents which erode, transport, and deposit sediments, and the geologic interpretation of the resulting rocks. 3 hours class and 2 hours laboratory/week.

51.475 SPECIAL PROBLEMS IN EARTH SCIENCE 3 sem. hrs.

Independent directed research oriented to studies of selected problems in earth science.

Prerequisite: 21 semester hours in Earth Science.

CHEMISTRY

Professors Barrett W. Benson (Chairperson), Clyde S. Noble, Wilbert A. Taebel, Norman E. White; Associate Professors Lawrence L. Mack, Roy D. Pointer, Rex E. Selk; Assistant Professors Wayne P. Anderson, Margaret M. L. Chu.

Arts and Sciences major for the B.S. degree:

Chemistry 52.102, 113, 122, 231, 232, 311, 312, 322; 421 or 441; 422, 490, 492; Mathematics 53.125, 126; 171 or 172; 225; Physics 54.211, 212, 310; reading knowledge of Scientific German or Russian.

Note: Students who want ACS certification upon graduation must complete the requirements for the BS degree as given above.

Arts and Sciences major for the B.A. degree:

Chemistry 52.102, 113, 122, 231, 232, 311, 312, 322, 490; Mathematics 53.125, 126, 171 or 172, 225; Physics 54.211, 212.

(Note: Requirements for the major for the B.S. in Ed. degree are found in the section on Secondary Education, School of Professional Studies.)

The Department of Chemistry is recognized by the American Chemical Society as meeting the standards for undergraduate education in Chemistry set by the committee on Professional Training of the Society. This

recognition is of significance to students who upon graduation seek to enter graduate school, medical school, or an industrial position in chemistry. Students who meet all requirements of the major in chemistry for the B.S. degree are certified by the Department to the national office of the ACS upon graduation; they thereupon become eligible for membership in the Society without the usual two-year waiting period.

COURSES

(Code 52)

Courses marked † may be applied toward General Education.

52.101 INTRODUCTORY CHEMISTRY † 3 sem. hrs.

An introduction to fundamental concepts and principles of chemistry, including aspects of environmental chemistry. No previous chemistry background assumed. 3 hours class/week.

52.102 COLLEGE CHEMISTRY † 4 sem. hrs.

Basic principles of chemistry including descriptive and theoretical topics of general chemistry as recommended by the American Chemical Society. Recommended for students with a strong high school science background and an above average math SAT score. 4 hours class/week.

Prerequisite: 52.101 or satisfactory performance on a department-administered, standardized exam and written permission of the Chemistry Department.

52.108 PHYSIOLOGICAL CHEMISTRY 3 sem. hrs.

A survey of the essentials of organic and biochemistry. 3 hours class/week.

Prerequisite: 52.102, 113, and permission of the Chairperson of the Department of Nursing.

52.113 CHEMISTRY LABORATORY † 2 sem. hrs.

An introduction to theory and practice of fundamental chemistry laboratory techniques, including qualitative analysis. 4 hours/week 1 class, 3 laboratory.

Prerequisite: either 52.101 or 102, concurrent or completed.

52.122 QUANTITATIVE ANALYTICAL CHEMISTRY † 4 sem. hrs.

Fundamental principles of quantitative chemical analysis. Utilizes classical and modern instrumental techniques. Laboratory skills and calculations of quantitative analysis are stressed. 7 hours/week; 3 class, 4 laboratory.

Prerequisite: 52.102, 113.

52.211 INTRODUCTORY ORGANIC CHEMISTRY †4 sem. hrs.

A survey of functional group organic chemistry with emphasis on those fundamentals of structure, stereochemistry, and reaction mechanisms which are desirable for an understanding of the chemistry of biomolecules. Students who contemplate further work in chemistry should take the 52.231-232 sequence. Not open to Chemistry majors. 6 hours/week: 3 class, 3 laboratory.

Prerequisite: 52.102, 113.

52.231 ORGANIC CHEMISTRY I † 4 sem. hrs.

Fundamental principles of organic chemistry. Molecular structure, stereochemistry and reactions of hydrocarbons and their derivatives. Reaction mechanisms and syntheses emphasized. 7 hours/week: 3 class, 4 laboratory.

Prerequisite: 52.112.

52.232 ORGANIC CHEMISTRY II † 4 sem. hrs.

A continuation of 52.231, with emphasis on reactions of common functional groups, synthesis and mechanism. Modern spectroscopic methods and the interpretation of spectra introduced. 7 hours/week: 3 class, 4 laboratory.

Prerequisite: 52.231.

52.233 INTRODUCTORY BIO-ORGANIC CHEMISTRY † 4 sem. hrs.

The organic chemistry of biomolecules with emphasis on the structure and chemical transformations of proteins, carbohydrates, lipids, and nucleic acids. 6 hours/week: 3 class, 3 laboratory.

Prerequisite: 52.211 or 52.232.

52.311 PHYSICAL CHEMISTRY I 4 sem. hrs.

Study of chemical thermodynamics with an introduction to quantum and statistical mechanics; kinetic-molecular theory of gases; quantized molecular energies; the laws of thermodynamics; Gibbs free energy and equilibrium. 7 hours/week: 3 class, 4 laboratory.

Prerequisite: 52.102, 113; 54.211 or 111; 53.125, 126.

52.312 PHYSICAL CHEMISTRY II 4 sem. hrs.

Continuation of 52.311; Schroedinger equation; molecular orbital theory; spectroscopy; rates and mechanisms of reactions; electrochemistry. 7 hours/week: 3 class, 4 laboratory.

Prerequisite: 52.311; 54.212 or 112; 53.225.

52.322 INSTRUMENTAL ANALYTICAL CHEMISTRY 4 sem. hrs.

Theory and laboratory applications of some of the instrumental methods of analysis. Topics include chromatography, spectrophotometry, polarography, electro-analysis, nuclear magnetic resonance, and others. A laboratory-centered course. 7 hours/week: 3 class, 4 laboratory.

52.413 PHYSICAL CHEMISTRY III 3 sem. hrs.

Further topics in physical chemistry chosen according to student interest. Possible topics of study are: quantum chemistry; physical biochemistry; statistical thermodynamics; macromolecular chemistry. 3 hours class/week.

Prerequisite: 52.312.

52.421 ADVANCED INORGANIC CHEMISTRY 3 sem. hrs.

Selected theories and principles of inorganic chemistry are studied and applied to a systematic analysis of the periodic relationships and properties of the elements. 3 hours class/week.

Prerequisite: 52.312 or concurrent.

52.422 ADVANCED LABORATORY 4 sem. hrs.

An integration of laboratory practices associated with qualitative organic analysis and techniques common to inorganic and biochemistry. Topics include separation, synthesis, isolation, purification and structure determination. Interpretation and reliability of experimental results. 8 hours/week: 2 class, 6 laboratory.

Prerequisite: 52.232, 322.

52.433 ADVANCED ORGANIC CHEMISTRY 3 sem. hrs.

Advanced theory, stereochemistry and utility of organic reactions. Reactive intermediates emphasized. 3 hours class/week.

Prerequisite: 52.232; 52.312 or concurrent.

52.441 BIOCHEMISTRY 3 sem. hrs.

Chemistry of proteins, nucleic acids, lipids, carbohydrates; intermediary metabolism; introduction to enzyme chemistry. 3 hours class/week.

Prerequisites: 52.232, 52.312 or concurrent.

52.490 CHEMISTRY SEMINAR 1 sem. hr.

52.491 SPECIAL TOPICS 1 to 3 sem. hrs.

May take the form of a directed laboratory or library oriented investigation on one or more topics of mutual interest to student and instructor.

Registration by consent of the instructor.

52.492 CHEMICAL RESEARCH 3 sem. hrs.

Laboratory investigations of selected problems for advanced students.

Registration by consent of the instructor.

MATHEMATICS

Professor Stephen D. Beck (Chairperson); Associate Professors Harold J. Bailey, Charles R. Reardin, Charles M. Brennan, Leroy H. Brown, JoAnne S. Grownney, Paul G. Hartung, Robert L. Klinedinst, Joseph E. Mueller, Ronald W. Novak, Clinton J. Oxenrider, James C. Pomfret, June L. Trudnak; Assistant Professor Thomas L. Ohl.

Arts and Sciences major for B.A. degree:

Mathematics 53.125, 126; 171 or 172; 211, 225, 226, 241; 15 semester hours elected from 53.212, 231, 271, 281, 312, 322, 331, 341, 371, 411, 421, 422, 451, 461, 471, 472, 491, 492; six to eight semester hours in a discipline to which mathematics is applied, as approved by the adviser.

COURSES

(Code 53)

Note: Courses marked † may be applied toward General Education.

Note: Requirements for the major for the B.S. in Education degree are given in Section 8.02.1.

53.101 FUNDAMENTALS OF MATHEMATICS † 3 sem. hrs.

An informal investigation of a collection of mathematical concepts designed to promote inductive reasoning and illustrate the role of mathematics in our society.

53.110 BASIC ALGEBRA † 3 sem. hrs.

A study of fundamental algebraic methods for students whose previous mathematical background is weak. Elementary algebraic relationships, functions, and solution of equations.

Permission of Mathematics Department Chairperson is required.

53.111 FINITE MATHEMATICS † 3 sem. hrs.

An introductory development of logic and sets provides the foundation for the study of counting techniques and probability spaces.

53.112 TRIGONOMETRY † 3 sem. hrs.

The study of natural trigonometric ratios and applications, extended to circular functions.

53.113 PRE-CALCULUS † 3 sem. hrs.

Elementary algebraic functions and relations; exponential and logarithmic functions; circular functions and inverse functions.

53.114 COLLEGE ALGEBRA FOR BUSINESS APPLICATIONS † 3 sem. hrs.

Development of fundamental mathematical concepts and the computational skills necessary to use these concepts in the modern world of business.

Prerequisite: 1½ years of high school algebra or the equivalent.

53.118 APPLIED MATRIX ALGEBRA † 3 sem. hrs.

Introduction to vectors, matrices, linear equations, and linear programming with applications to the social and biological sciences.

53.123 ESSENTIALS OF CALCULUS † 3 sem. hrs.

Basic computational concepts of elementary calculus, differentiation and integration as used in non-physical science applications. Less rigorous than 125-126. An adequate background in algebra is needed and some trigonometry would be helpful.

53.125 ANALYSIS I † 3 sem. hrs.

Differentiation and integration of functions of a single real variable including algebraic and transcendental functions.

53.126 ANALYSIS II † 3 sem. hrs.

Techniques of integration, infinite series, Taylor's Theorem, differential equations, and an introduction to partial derivatives.

Prerequisite: 53.125.

53.141 INTRODUCTORY STATISTICS † 3 sem. hrs.

Reading, interpreting and constructing tables of statistical data; sta-

tistical measure; application of basic skills of statistics.
Prerequisite: 53.111, or permission of instructor.

53.171 INTRODUCTION TO COMPUTER PROGRAMMING † 1 sem. hr.

An introduction to mathematically-oriented computer programming using the Fortran language with examples written and executed on the college computer.

53.172 INTRODUCTION TO BASIC COMPUTER PROGRAMMING † 1 sem. hr.

Interactive computer programming using the Basic language. Communication with the computer via remote terminals.

53.173 COMPUTERS AND SOCIETY † 1 sem. hr.

A survey of the history, applications, and implications of computers. A non-technical overview for students in all disciplines.

53.201 THEORY OF ARITHMETIC † 3 sem. hrs.

The language of sets; the four elementary operations through the real number system; elementary theory of numbers.

Prerequisite: For Elementary Education, Special Education, or Communication Disorders majors only. Sophomore standing required.

53.202 ALGEBRAIC AND GEOMETRIC STRUCTURES..... 3 sem. hrs.

Informal geometry, including area and volume. A non-rigorous examination of groups, rings, and fields.

Prerequisite: 53.201.

53.203 FIELD WORK IN MATHEMATICS 3 sem. hrs.

Instruments used in the field are the slide rule, angle mirror, clinometer, plane table, transit. (Summer only).

53.204 MEASUREMENT AND METRIC SYSTEM FOR TEACHERS † 1 sem. hr.

The metric system and techniques of teaching it. Preparation of the student for a metric society. Group and individual pedagogy.

53.211 INTRODUCTION TO MODERN ALGEBRA 3 sem. hrs.

An introduction to the language and methods of abstract mathematics. Subjects discussed include sets, relations, functions, groups, rings and fields.

Prerequisite: 53.121 or 53.125.

53.212 LINEAR ALGEBRA 3 sem. hrs.

Study of abstract vector spaces, linear transformations, matrices, determinants, inner product spaces, spectral theory, and related topics.

Prerequisite: 53.117 and 53.122, or 53.225.

53.225 ANALYSIS III 3 sem. hrs.

Vector analysis in R^2 and R^3 with extension to R^n ; systems of linear

equations, matrix algebra, linear transformations, and Euclidean Space.

Prerequisite: 53.126 or 53.122.

53.226 ANALYSIS IV 3 sem. hrs.

Curves and parametric equations, surfaces, Taylor's Theorem, functions from \mathbb{R}^m to \mathbb{R}^n and multiple integrals.

Prerequisite: 53.225, or 53.221.

53.231 COLLEGE GEOMETRY 3 sem. hrs.

Elementary geometry from an advanced standpoint. Incidence in the plane and space, congruence, inequality and similarity concepts. Properties of polygons, circles and spheres.

53.241 PROBABILITY AND STATISTICS † 3 sem. hrs.

Descriptive and inferential statistics with emphasis on probabilistic distribution. Practical training in the calculation of various statistical measures obtained in the laboratory. Primarily for mathematics majors.

53.271 ALGORITHMIC PROCESSES FOR COMPUTERS † 3 sem. hrs.

Properties of algorithms; languages used in described algorithms; application of a procedure-oriented language (Fortran) to problem-solving.

Prerequisite: 53.171, 53.172, 44.418, or 92.252.

53.281 MATHEMATICAL MODELS WITH APPLICATIONS † 3 sem. hrs.

A study of the nature of mathematical modelling and of recent applications of mathematics to the biological, social, business and management sciences. Topics include Markov chains, linear programming, game theory, graph theory, utility, growth processes, and queuing theory. Previous introduction to matrices and probability is helpful. (Fall only.)

Prerequisites: 53.121, 53.123, or 53.125.

53.311 ALGEBRA FOR SECONDARY SCHOOL TEACHERS 3 sem. hrs.

Topics of elementary algebra from an advanced viewpoint. Consideration will be given to topics of contemporary school mathematics programs. (Spring only).

Prerequisite: Ed. 65.352 or permission of instructor.

53.322 DIFFERENTIAL EQUATIONS 3 sem. hrs.

Study of elementary ordinary differential equations; infinite series and power series, and Laplace transforms.

Prerequisite: 53.221 or 53.225.

53.331 MODERN GEOMETRY 3 sem. hrs.

Non-Euclidean geometries and their development from postulate systems and a formal approach to projective geometry. (Alternate years. Next offered Spring, 1978).

53.341 ADVANCED STATISTICS 3 sem. hrs.

Emphasis on continuous probability spaces, statistical distributions, and applications of statistics. (Alternate years. Next offered Fall, 1977.)

Prerequisite: 53.241 and 53.126.

53.371 COMPUTER ORGANIZATION 3 sem. hrs.

Computer components and their organization; compiler and assembly systems; input/output; subroutines and macros. (Alternate years. Next offered Fall, 1978).

53.372 COMPUTER APPLICATIONS IN SECONDARY SCHOOL MATHEMATICS 3 sem. hrs.

Techniques for incorporating computers in the mathematics curriculum in secondary schools. Preparation and use of computer-assisted instruction, using the Basic and Fortran languages. (Fall only.)

Prerequisite: 53.271 and permission of the instructor.

53.411 INTRODUCTION TO GROUP THEORY 3 sem. hrs.

Fundamentals of group theory. Topics included are groups and related systems, normal subgroups and homomorphisms, Abelian groups, permutation groups, automorphisms, and free groups. (Alternate years. Next offered Fall, 1978).

Prerequisite: 53.211.

53.421 ADVANCED CALCULUS 3 sem. hrs.

A rigorous treatment of the concepts of limit, continuity, derivative, and integral for functions of a single real variable. (Fall only.)

Prerequisite: 53.221 or 53.226.

53.422 COMPLEX VARIABLES 3 sem. hrs.

Presentation of theory through the differential and integral calculus of analytic functions, residues, and conformal transformations, with applications. (Alternate years. Next offered Spring, 1978).

Prerequisite: 53.221 or 53.226.

53.451 INTRODUCTION TO TOPOLOGY 3 sem. hrs.

Fundamentals of general topology: elementary set theory, topological spaces, mappings, connectedness, compactness, completeness, product and metric spaces, nets and convergence. (Alternate years. Next offered Spring, 1977.)

Prerequisite: 53.221 or 53.226.

53.461 NUMBER THEORY 3 sem. hrs.

Theory of numbers. Topics included are Euclidean algorithm, congruences, continued fractions, Gaussian integers, and Diophantine equations. (Spring only).

Prerequisite: 53.211.

53.471 ELEMENTARY NUMERICAL ANALYSIS 3 sem. hrs.

A computer-oriented analysis of algorithms of numerical analysis. Topics discussed include non-linear equations, interpolation and approximation, differentiation and integration, matrices, and differential equations. (Alternate years. Next offered Spring, 1977.)

Prerequisite: 53.271, 53.322.

53.472 MATRIX COMPUTATION 3 sem. hrs.

Computer-oriented techniques applied to inversion of matrices; diag-

onalization of matrices; band matrices; and the associated solution of linear algebraic equations. (Alternate years. Next offered Spring, 1978).

Prerequisite: 53.271 and 53.117; 53.212 or 53.225.

53.491 SPECIAL TOPICS IN MATHEMATICS 3 sem. hrs.

Presentation of an area of mathematics which is not available as a regular course offering.

Prerequisite: *Permission of the instructor.*

53.492 INDEPENDENT STUDY IN MATHEMATICS1-3 sem. hrs.

A directed study of a particular area of mathematics as mutually agreed upon by the student and his instructor. The emphasis is on individual scholarly activity of the highly motivated student.

PHYSICS

Professors P. Joseph Garcia, Stephen G. Wukovitz, Albert R. Menard. David A. Superdock, Chairperson; Associate Professor M. Gene Taylor; Assistant Professors P. Joseph Garcia, Stephen G. Wukovitz.

Arts and Sciences major for the B.A. degree:

Chemistry 52.102, 113; Mathematics 53.125, 126, 225, 271, 322;
Physics 54.211, 212, 310, 311, 314; 12 semester hours chosen
from other Physics courses numbered above 300.

Arts and Sciences major for the B.S. degree:

Chemistry 52.102, 113; Mathematics 53.125, 126, 225, 271, 322;
3 semester hours chosen from Mathematics 53.212, 422, 471;
Physics 54.211, 212, 310, 311, 314; 18 semester hours chosen
from other Physics courses numbered above 300.

Note: Requirements for the major for the B.S. in Ed. degree are found in the section on Secondary education, School of Professional Studies.

COURSES

(Code 54)

Courses marked † may be used toward General Education.

54.101 BASIC PHYSICAL SCIENCE † 3 sem. hrs.

An introductory integration of concepts and principles from chemistry, physics, and astronomy, with consideration for the nature of scientific thought and of the interaction of science with human and community concerns. For non-scientists.

54.103 PRINCIPLES OF PHYSICAL SCIENCE † 3 sem. hrs.

An integrated physical science course emphasizing laboratory experience. Especially recommended for elementary teachers. Encourages the development of mental models to correspond with experience. Atoms, molecules, materials, and chemical change; energy; light and electricity. 4 hours lab-discussion/week.

54.104 PRINCIPLES OF PHYSICAL SCIENCE II † 3 sem. hrs.

A continuation of 54.103. Astronomy, atomic theory, geology, crystallography, and chemical bonding. 4 hours lab-discussion/week.

Prerequisite: 54.103 or consent of instructor.

54.107 APPLIED PHYSICS FOR MEDICAL TECHNOLOGISTS 4 sem. hrs.

Selected principles of physics with applications to the processes and instrumentation of medical technology. Mechanics, fluids, kinetic energy and heat, optics, electricity, and magnetism, electronics, atomic structure, radiation, and data acquisition and readout. 3 hours class, 3 hours laboratory per week.

54.111 INTRODUCTORY PHYSICS I † 4 sem. hrs.

An intuitive approach to selected topics presented for the student not intending to specialize in physics or chemistry. Mechanics, heat, kinetic molecular theory of gases, wave motion, and sound. 3 class, 3 laboratory/week.

54.112 INTRODUCTORY PHYSICS II † 4 sem. hrs.

A continuation of 54.111. Electricity, magnetism, light, relativity, quantum and atomic theory, structure of matter, and nuclear and particle physics. 3 class, 3 laboratory/week.

Prerequisite: 54.111 or consent of instructor.

54.211 GENERAL PHYSICS I † 4 sem. hrs.

An introductory treatment using calculus; appropriate for physical science or mathematics majors. Mechanics, the physics of fluids, kinetic theory, heat, and thermodynamics. 3 class, 3 laboratory/week.

Prerequisite: Math 53.125 or concurrent registration.

54.212 GENERAL PHYSICS II † 4 sem. hrs.

A continuation of 54.211. Wave motion, sound, geometrical and physical optics, electricity, and magnetism. 3 class, 3 laboratory/week.

Prerequisite: Math 53.126 or concurrent registration; Phys 54.211, or 54.111 with consent of instructor.

54.225 DEMONSTRATIONS IN THE PHYSICAL SCIENCES 3 sem. hrs.

Theory, design, and presentation of demonstration experiments for the teaching of the physical sciences, including some attention to specialized audio-visual media. Special consideration of apparatus for new curricula such as PSSC, CHEM Study, HPP, ESCP, and IPS. 2 class, 2 laboratory/week.

Prerequisite: Phys 54.112; Chem 52.102, 113; or their equivalent.

54.304 NUCLEAR RADIATIONS 2 sem. hrs.

A laboratory-oriented course dealing primarily with basic techniques for detecting, measuring, and analyzing nuclear radiations. Applications of nuclear radiations in science and technology. Aspects of radiation safety and radiation pollution of the environment. 1 class, 3 laboratory/week.

Prerequisite: 54.112 or 212 or consent of instructor.

54.310 MODERN ATOMIC PHYSICS † 4 sem. hrs.

Application of the “modern” atomic concepts of quantum theory, wave mechanics, and relativity to appropriate topics such as the electron, scattering. 3 class, 3 laboratory/week.

Prerequisite: Phy 54.212, or 54.112 with consent of instructor.

54.311 MECHANICS 3 sem. hrs.

Statics and dynamics of single particles and particle systems.

Prerequisites: 54.212, or 54.112 with consent of instructor; Math 53.225 or consent of instructor.

54.314 ELECTRICITY AND MAGNETISM 4 sem. hrs.

Electric and magnetic fields, potential, dielectric properties, electric circuits, electromagnetic induction, and magnetic properties of matter, with a brief introduction to electromagnetic waves. 3 class, 3 laboratory/week.

Prerequisites: Phy 54.212, or 54.112 with consent of instructor; Math 53.225.

54.315 ELECTRONICS † 4 sem. hrs.

Theory and application of semiconductors and vacuum tubes with special emphasis on circuitry. Study of basic electronic instrumentation as related to the gathering, processing, and display of scientific data in any discipline. 3 class, 3 laboratory/week.

Prerequisite: 54.112 or 54.212.

54.318 OPTICS 4 sem. hrs.

A combination of geometrical optics including lens theory with physical (wave) optics including diffraction, interference, polarization, lasers, and coherent light. 3 class, 3 laboratory/week.

Prerequisite: 54.212 or 54.112 with consent of instructor.

54.420 VIBRATIONS AND WAVES 3 sem. hrs.

Simple harmonic, damped, and forced oscillations. Propagation of waves in three dimensions including reflection, refraction, superposition, diffraction, and interference. Application of general principles of acoustic, fluid, mechanical, matter, and electromagnetic waves.

Prerequisites: Phys 54.311; Math 53.225.

54.421 SOLID STATE PHYSICS 3 sem. hrs.

Physical properties of matter in the solid state. Basic quantum concepts, crystal structure, electrons in metals, electrical conductivity, semiconductors, band theory, and the p-n junction. Dielectric and magnetic properties of matter.

Prerequisites: Phys 54.314, 54.310; Math 53.322.

54.422 THERMODYNAMICS 3 sem. hrs.

Concepts and principles of classical thermodynamics. Thermodynamics of simple systems. Achievement and measurement of low temperatures. Introduction to kinetic theory.

Prerequisites: Phys 54.212 or 54.112 with consent of instructor; Math 53.225.

54.480 HISTORY OF PHYSICAL SCIENCE 3 sem. hrs.

An account of the development of physical science from the time of Copernicus to the present with attention to the nature of scientific investigation, assumptions, constructs and models, and the interaction of science with other thinking.

Prerequisite: Phys 54.112; Chem 52.102; or their equivalent.

54.490 SEMINAR IN PHYSICS 1 sem. hr.**54.491 INDEPENDENT STUDY 1-3 sem. hrs.**

An investigation of an area of special interest and value to the student, under the direction of a faculty member, and following a plan approved in advance by the department chairman. May be partly interdisciplinary and may involve limited experimental work.

54.493 INDEPENDENT RESEARCH 1-3 sem. hrs.

An application of theoretical and/or experimental research methods to a special problem and the preparation of a report. May be interdisciplinary. A plan acceptable to the student and to supervising faculty member must be approved in advance by the department chairperson.



MARINE SCIENCE CONSORTIUM

COURSES CURRENTLY APPROVED

(Code 55)

Note: For course descriptions and credit see announcements of Marine Science Consortium;

- 55.110 INTRODUCTION TO OCEANOGRAPHY
- 55.211 FIELD METHODS
- 55.212 NAVIGATION
- 55.221 MARINE INVERTEBRATES
- 55.241 MARINE BIOLOGY
- 55.250 MANAGEMENT OF WETLAND WILDLIFE
- 55.260 MARINE ECOLOGY
- 55.270 SCUBA DIVING
- 55.280 FIELD BIOLOGY
- 55.331 CHEMICAL OCEANOGRAPHY
- 55.342 MARINE BOTANY
- 55.343 ICHTHYOLOGY
- 55.344 ANATOMY OF MARINE CHORDATES
- 55.345 ORNITHOLOGY
- 55.362 MARINE GEOLOGY
- 55.364 PHYSICAL OCEANOGRAPHY
- 55.398 DEVELOPMENTAL BIOLOGY OF MARINE ORGANISMS
- 55.420 MARINE MICROPALAEONTOLOGY
- 55.431 ECOLOGY OF MARINE PLANKTON
- 55.458 EXPLORATION METHODS IN MARINE GEOLOGY
- 55.459 COASTAL GEOMORPHOLOGY
- 55.498/598 TOPICS IN MARINE SCIENCE
- 55.500 PROBLEMS IN MARINE SCIENCE
- 55.510 OCEANOGRAPHY I (In-Service Teachers)
- 55.511 OCEANOGRAPHY II (In-Service Teachers)
- 55.520 MARINE MICROBIOLOGY
- 55.530 COASTAL SEDIMENTATION
- 55.540 ENVIRONMENTAL SCIENCE EDUCATION
- 55.570 RESEARCH CRUISE—BIOLOGY, GEOLOGY, POLLUTION

8. SCHOOL OF PROFESSIONAL STUDIES

8.01 ORGANIZATION AND FUNCTIONS

The School of Professional Studies administers curricula in Teacher Education, Nursing, and Medical Technology, offers the courses in education, special education, communication disorders and nursing and coordinates work in ROTC.

Five departments of the School offer courses in professional education and administer teacher education programs for elementary and secondary schools.

8.02 TEACHER EDUCATION

8.02.1 GENERAL INFORMATION

Accreditation of Teacher Education

The College is accredited by the National Council for the Accreditation of Teacher Education (NCATE). The teacher education programs outlined in this catalogue have been approved for teacher certification by the Pennsylvania Department of Education.

Scope of Teacher Education

Programs are offered for preparation of teachers for elementary schools, teachers of academic subjects in secondary schools, teachers in special education, teachers of communication disorders and teachers of business education. The Business Education program is administered in the School of Business; the other teacher education programs are administered in departments of the School of Professional Studies.

Degree

Each of the undergraduate programs for teacher education outlined in this catalogue leads to the degree, Bachelor of Science in Education (B.S. in Ed.).

Teacher Certification

The completion of one of the approved programs in teacher education is prerequisite to institutional recommendation for a teacher's certificate. Upon recommendation, an initial certificate is granted by the Commonwealth of Pennsylvania.

The initial certificate is designated as Instructional Level I; it is valid for three years and may be renewed for three additional years upon completion of twelve semester hours of college credit beyond the baccalaureate, and certification of three years of successful teaching. A Level I certificate is not subject to renewal beyond a total of six years. A permanent certificate, Level II, is issued upon certification of three years of successful experience under Level I and the completion of a minimum of twenty-four semester hours of post-baccalaureate course work (the twenty-four semester hours may include the twelve semester hours required in case the Level I certificate was renewed).

The programs offered for Level I certification are:

Elementary Education

Early Childhood Education

Business Education—Accounting, Secretarial.

Secondary Education—Biology, Chemistry, Communication, Earth and Space Science, English, French, General Science, German, Mathematics, Physics, Social Studies, Spanish.

Special Education—Teaching of Mentally Retarded.

Communication Disorders—Speech Correction.

Public School Dental Hygienist

Reciprocity of Teachers' Certificates

Pennsylvania is a party to the *Interstate Agreement on Qualifications for Educational Personnel* which provides that holders of Pennsylvania certificates are eligible for certificates in the other states which are parties to the agreement. Currently, there are twenty-three such states.

Admission to Teacher Education

Students who wish to take teacher education curricula enroll tentatively in the School of Professional Studies and schedule courses in harmony with the requirements of the program they wish to follow. In due course the students apply for admission to teacher education. Usually, the screening for admission to teacher education takes place after the student has completed 32 or more semester hours and has taken the Sophomore Field Experience intended to help him to assess his decision. Scholarship and pertinent personal attributes are weighed in determining admission to teacher education; the criteria reflect the responsibility of a college whose recommendation is a sufficient basis for the issuing of a teacher's certificate. If a student who

was tentatively enrolled in the School of Professional Studies is not admitted to teacher education, he is transferred to the School of Arts and Sciences.

Retention in Teacher Education

Admission to teacher education is equivalent to candidacy for the degree, Bachelor of Science in Education. Candidacy for this degree is revoked in case of failure to maintain the required Quality Point Average and may be revoked for other sufficient reason. If candidacy is revoked but the student is otherwise eligible to remain in the College he is transferred to the School of Arts and Sciences; in this case he must reapply for admission to teacher education if he wishes to be reinstated.

Field Experience

Students in Teacher Education are required to engage in a Sophomore field experience during which they work in and observe the educational process in a school of their choice. It is intended that this experience will help the student decide before the Junior year whether he wishes to follow a career in teaching. Participants are exposed to many aspects of teaching and to the operation of the whole school, thus providing experience that should increase the relevancy of course work in professional education.

Other field experiences in addition to student teaching are participated in as part of certain courses in professional education; these may take the form of field trips, observations, and micro-teaching.

Student Teaching

Pre-professional teacher education culminates in student teaching for a semester in public schools of Pennsylvania.

Undergraduates who have satisfied the prerequisites for student teaching courses are assigned to student teaching during the first or second semester of their senior year. They are placed according to the availability of qualified cooperating teachers in their subject area and the willingness of schools with programs approved by the College to cooperate with the College in its program in Teacher Education. Students should be prepared to accept assignments in any of the student teaching centers.

The student teaching semester is divided into two equal

periods; this provides an opportunity for students to teach at two grade levels and frequently in two socio-economic environments.

Because of the constantly changing educational and socio-economic scene, flexibility of format is maintained in the student teaching program.

Student Teaching Centers

The College selects its student teaching centers and cooperating teachers in urban, suburban, and rural areas. Students in Elementary Education are assigned to central Pennsylvania, suburban Philadelphia, and certain inner-city locations. Students in Secondary Education may be assigned to teach in central Pennsylvania, suburban Philadelphia, or in the cities of Philadelphia and Harrisburg. Business Education student teaching centers are located in the Bloomsburg, Allentown, and Williamsport areas. Students in Communication Disorders and Special Education are assigned to the White Haven State School, Selinsgrove State School, and to public schools and other agencies located in southeastern Pennsylvania.

8.02.2 ELEMENTARY AND EARLY CHILDHOOD EDUCATION CURRICULA

Two curricula are offered, a curriculum leading to certification for kindergarten through grade 6 (Designated K-6) and a curriculum in Early Childhood Education which leads to certification for Nursery School, Kindergarten and Grades 1-3. The requirements of these two curricula are as follows:

Kindergarten Through Grade 6

(Donald C. Miller, Curriculum Coordinator)

A. General Education. (See Section 6.3)

B. Academic Background courses: *(A teacher in the elementary school must be prepared to teach many subjects. To provide the background, the curriculum requires a broad distribution of academic background courses; frequently, these may be elected from courses which are designated as General Education courses and therefore may be counted also toward the General Education requirement.)* Mathematics, 6 semester hours; Biology, 3 semester hours; Chemistry or Physics or General Physical Science, 3 semester hours; Elective credit in science or mathematics, 3 semester hours; fifteen semester hours elected from three of the disciplines listed as Social Science in

Section 6.3; fifteen semester hours elected from at least three disciplines listed as Humanities in Section 6.3, including at least three semester hours in English.

C. Professional Education and Elementary Specialization. (These courses are intended to develop knowledge of the nature of the child, the nature of the school, the learning process, general methods of teaching and methods of teaching particular subjects, and provide student teaching experience.)

PSYCHOLOGY

- 48.101 — General Psychology
- 48.211 — Developmental Psychology
- 48.271 — Educational Psychology, or 60.391, Learning and the Learner

EDUCATION

- 60.393 — Social Foundations of Education
- 62.302 — Methods and Materials in Elementary School Science
- 62.371 — Teaching of Reading
- 62.395 — Curriculum and Instruction in the Elementary School
- 62.401 — Student Teaching in the Elementary School
- 62.398 — Methods and Materials in Mathematics
- 62.411 — Seminar

ELECTIVE

Nine semester hours must be elected from the following courses:

- 30.305 — Children's Art
- 20.351 — Literature for Children
- 35.311 — Music in the Elementary School
- 05.311 — Methods and Materials in Elementary School Health and Physical Education
- 62.321 — Introduction to Early Childhood Education
- 62.322 — Seminar in Learning Experiences with Young Children
- 60.311 — Educational Measurements
- 48.321 — Tests and Measurements
- 62.389 — Individualizing Instruction
- 62.375 — Reading for the Socially Disadvantaged
- 62.376 — Language Experiences for Children

D. Minor. Each student is required to select a minor in which he/she takes eighteen semester hours.

The selection of courses for the minor is subject to advisement by the department and approval by the student's curriculum adviser.

The minor has no significance for teacher certification.

E. Free electives if necessary to complete the minimum graduation requirement of 128 semester hours.

Early Childhood Education

(John Hranitz, Coordinator)

A. General Education. (See Section 6.3)

B. Academic Background Courses: Mathematics, 6 semester hours; Biology, 4 semester hours; Physical Science, 3 semester hours; nine

semester hours in Psychology and Social Studies elected from three of the disciplines listed in Section 6.3, including at least three semester hours in English.

C. Professional Education and Early Childhood Education Specialization:

PSYCHOLOGY

- 48.101 — General Psychology
- 48.211 — Developmental Psychology
- 48.271 — Educational Psychology, or 60.391, Learning and the Learner

EDUCATION

- 60.393 — Social Foundations of Education
- 60.440 — Workshop in Educational Media
- 62.303 — Methods and Materials in Elementary Science N,K-3 (if approved)
- 62.321 — Introduction to Early Childhood Education
- 62.322 — Seminar in Learning Experiences with Young Children
- 62.371 — Teaching of Reading (Early Childhood Section)
- 62.373 — Diagnostic and Remedial Reading (Early Childhood Section)
- 62.376 — Language Experiences for Children (Early Childhood Section)
- 62.396 — Discovering Mathematical Experiences for the Young Child
- 62.401 — Student Teaching
- 62.411 — Professional Practicum Seminar
- 62.432 — Social Studies in the Elementary School

ELECTIVES

Fifteen semester hours must be elected from the following courses:

- 05.311 — Methods and Materials in Elementary School Health and Physical Education
- 20.351 — Literature for Children
- 25.318 — Creative Dramatics
- 26.319 — Children's Theatre
- 30.305 — Children's Art
- 32.275 — General Crafts
- 35.242 — Class Piano I
- 35.311 — Music in the Elementary School
- 48.321 — Tests and Measurements
- 45.336 — Child Welfare
- 62.375 — Reading for the Socially Disadvantaged Child
- 62.389 — Individualizing Instruction Activities in the Elementary School
- 70.201 — Education of Exceptional Children

D. Minor. A minor is optional. The statement relative to the minor in the K-6 curriculum is applicable here.

E. Free Electives if necessary to complete the minimum graduation requirement.

8.02.3 SECONDARY EDUCATION CURRICULUM

The Secondary Education Curriculum is planned to offer academic, cultural and professional experiences significant to the personal and professional competence of a beginning teacher of a subject area in the secondary schools.

The curriculum requirements comprise General Education, Professional Education and the Subject Area Specialization, as follows:

A. General Education. (Section 6.3)

B. Professional Education. (*See course descriptions for prerequisites of these courses.*)

60.393 — Social Foundations of Education 3 sem. hrs.

60.391 — Learning and the Learner

or

48.271 — Educational Psychology 3 sem. hrs.

65.396 — Curriculum and Instruction 6 sem. hrs.

65.402 — Student Teaching 12 sem. hrs.

65.411 — Seminar in Secondary Education 3 sem. hrs.

C. Area of Specialization. Each major (or area of specialization) is designed to develop scholarship basic to teaching the subject and, to a degree governed by the limits of time and the discrimination of the student in choosing electives, basic to graduate study. The requirements for each area of specialization follow.

D. Free electives if necessary to complete the minimum graduation requirement of 128 semester hours.

AREAS OF SPECIALIZATION

BIOLOGY

Biology: 50.210, 220, 332, 351;

Chemistry: 52.101 and/or 102; 113; 52.211, 233;

Mathematics: 53.141;

Sixteen semester hours elective in biology, including 3 semester hours in field courses in addition to 50.351.

Physics is recommended—students who plan to enter graduate study should take both 54.111 and 54.112.

CHEMISTRY

Chemistry 52.102, 113, 122, 231, 232, 311, 312, 490;

Physics 54.211, 212;

Mathematics 53.125, 126; 53.171 or 172; 53.225;

Biology 50.101, 111; or 50.210 or 50.220.

COMMUNICATION

The requirements for the certificate in Communication comprise: 27 semester hours in core courses; 15 semester hours in one of four emphasis options; three semester hours in each of the remaining three emphasis options. (Total, 51 semester hours.)

Core Courses

One course from English 20.120, 121;
 one course from 20.220, 221, 222, 223;
 one course from 20.360, 361, 362, 363;
 one course from 20.311, 312, 411;
 Speech and Theatre: 25.103, 25.105; 26.208, 231; 25.241.
 (Total core courses, 27 semester hours.)

Emphasis Options

Speech option:

15 semester hours elected from 26.211, 311, 312, 318, 319, 25.325, 421, 492.

Theatre option:

15 semester hours elected from 25.206, 218, 285, 307, 26.319, 411, 414, 415, 416, 490.

Literature option:

One course elected from 20.120, 121, 220, 221, 222, 223, 251;
 one author course elected from 20.260, 381, 382, 383;
 one genre course elected from 20.153, 280, 333, 360, 361, 362, 370, 372, 373, 374, 380;
 one period survey course elected from 20.120, 121, 220, 221, 222, 223, 332, 341, 342, 343, 344, 345.

Writing option:

Five courses elected from 20.105, 111, 205, 255, 301, 302; or four of the preceding plus one 300-level or 400-level English course.

EARTH AND SPACE SCIENCE

Mathematics: Two courses selected from 53.113, 53.123, 53.141, 53.125, 53.126;

Physics 54.111;

Chemistry 52.102, 113;

Physics 54.112 or one additional Chemistry course;

Earth Science 51.101, 253, 255, 259; plus 4 additional courses from 51.102, 105, 361, 355, 362, 365, 369, 451, 455, 468, 475 and selected courses from Marine Science Consortium (55).

Maximum of 9 credits from Marine Science Consortium may be applied towards requirements for the major.

ENGLISH

English 20.120 or 121;

English 20.220 or 221;

English 20.222 or 223;

One additional course from above groups, not previously taken;

English 20.302, 363;
 English 20.312 or 20.311 or 20.411;
 Twelve semester hours in additional elective courses (300 or 400 level) in English.

FRENCH

French 10.103, 104, 201, 202, 209; 10.211 or 212;
 12 semester hours divided between civilization, language and literature.
 Students exempted from 10.103 or any required course(s) will substitute advanced elective courses in French.

GENERAL SCIENCE

Biology: 50.101, 102, 111, 112 or 50.210, 220; 351; one course at 300 or 400 level;
 Chemistry: 52.102, 113;
 Physics: 54.111, 112, or 54.211, 212;
 Earth Science: 51.101, 253, 255, 259;
 Mathematics: 53.111, 112;
 Elective courses, 11 semester hours minimum, from one or more of the areas of Biology, Earth Science, Physics, Chemistry, or Mathematics.

GERMAN

German 11.103, 104, 201, 202, 211, 212;
 Fifteen semester hours in German literature, language and civilization.
 Students exempted from 11.103 or any required course(s) will substitute advanced elective courses in German.

MATHEMATICS

Mathematics 53.125, 126; 171 or 172; 211, 225, 226, 231, 241;
 Twelve semester hours to be elected from 53.212, 271, 281, 311, 312, 322, 331, 341, 371, 372, 411, 421, 422, 451, 461, 471, 472, 491, 492.
 Recommended courses: Physics 54.211, 212.

PHYSICS

Physics 54.211, 212, 310, 311, 314;
 Six semester hours chosen from physics courses numbered higher than 54.212;
 Chemistry 52.102, 113;
 Mathematics 53.125, 126, 225, 322.
 Recommended courses: Biology 50.210, 50.220, Earth Science 51.101, 253, Mathematics 53.271.

COMPREHENSIVE SOCIAL STUDIES

The Social Studies Specialization requires 36 semester hours in prescribed core courses and the completion of one of seven specialization options.

Core Courses

Anthropology: 46.200;
 Economics: 40.211, 40.212;
 Geography: 41.101, 41.102;
 History: 42.112, 42.113; 42.208 or 121 or 122;
 Political Science: 44.101, 44.161;
 Sociology: 45.211;
 Psychology: 48.101.

Specialization Options

Social Problems—Economics

Political Science 44.366 or Sociology 45.213;
 Economics 40.413, 40.422;
 Twelve semester hours elective in Economics.

Social Problems—Geography

One Course from Geography 41.125, 253, 254, 256, Earth Science 51.101, 102, 255, 259;
 One course from 41.213, 221, 258, 310, 324, 463;
 One course from 41.321, 333, 343, 344, 345, 346, 347;
 Nine semester hours elective in Geography;
 Three semester hours elective in Economics, or Geography, or Sociology or Political Science or History.

Social Problems—History and Government

One course in United States History;
 One course in European History;
 One course in history of the non-western world;
 One course in United States government and politics from 44.322, 324, 326, 336, 351, 356, 429, 437, 440, 448, 453, 458;
 One course in international or comparative politics from 44.181, 366, 368, 371, 373, 383, 463, 465, 487;
 Six semester hours elective in history or political science.

Social Problems—Political Science

18 semester hours distributed among four groups with at least three semester hours in each group: Political Theory, 44.108, 303, 405, 409, 418, 492; American Government and Politics, 44.322, 324, 326, 336, 351, 356, 429, 437, 446, 448, 453, 458; Foreign Governments and Politics, 44.366, 368, 371, 373, 463, 464, 465; International Politics, 44.181, 383, 487.
 3 semester hours elective in Economics or Sociology or History or Geography.

Social Problems—Sociology

Political Science 44.366 or 44.383;
 Sociology 45.213, 45.315;
 Sociology 45.316 or 45.318;
 Nine semester hours elective in Sociology.

History—Broad Approach

History 42.398;
 Minimum of one course from each of the following groups: Ancient to Early Modern, Modern Europe, Non-western World, United States;
 Three semester hours elective in history;

Six semester hours elective in two of the following: Economics, Sociology, Political Science, Geography, Philosophy.

History—Concentrated Approach

History 42.398;

Fifteen semester hours selected in a concentration in European or Non-western World, or United States History;

Six semester hours elective in history apart from the concentration.

SPANISH

Spanish: 12.103, 104, 201, 202, 209; 211 or 212;

12 semester hours divided between civilization, literature and language courses.

Students exempted from 12.103 or any required course(s) will substitute advanced elective courses in Spanish.

COACHING

The following courses are recommended to be elected by students who expect to coach athletics in addition to teaching in their field of specialization: Physical Education 05.242, 05.409; one or two courses from 05.251, 252, 253; two courses from 05.256, 259, 260. Completion of these courses does not lead to certification.

8.03 DEPARTMENT OF SPECIAL EDUCATION

The Department of Special Education offers a certification program for teachers of Mentally Retarded children, an area of concentration for students in Elementary Education and the courses and experiences which support these curricula.

The Department of Special Education, located in Navy Hall, is equipped with therapy rooms, television equipment and equipment and materials used in the training of exceptional children.

Students enrolled in Special Education have the opportunity of participating in practicum in supervised and graded special classes. After the completion of course work, students participate in full-time student teaching in Selinsgrove State School and Hospital, Laurelton State School and Hospital, Pennhurst State School and Hospital, and to public schools in Chester, Columbia, Lackawanna, Luzerne, Lycoming, Montgomery, Montour, Northampton, Northumberland, Lehigh, Bucks, Snyder, Sullivan and Centre Counties. A special class conducted by Susquehanna Intermediate Unit provides opportunity for observation and participation.

Continued enrollment in the Special Education curriculum after the sophomore year is limited to the number of students who can be accommodated in clinical practice during the junior and senior years.

Sophomores who have been tentatively enrolled in the curriculum may apply for continued enrollment as part of their

application for admission to teacher education. If admitted to teacher education, selection for Special Education is made by the faculty of the Special Education department, assisted by representative seniors, in the light of the applicant's academic performance and professional promise.

Applicants who are not selected for Special Education should consult the coordinator of academic advisement concerning transfer to another curriculum. They are, however, eligible to reapply for Special Education during the next selection period.

CURRICULUM FOR TEACHING MENTALLY AND/OR PHYSICALLY HANDICAPPED

A. General Education. (See Section 6.3)

B. Academic Background Courses: Mathematics 53.201; Biology 50.101; Physical Science 54.103; Speech 25.103; Psychology 48.101 and 48.211; (Academic background courses designated by the departments as applicable to the General Education requirements may be elected in partial fulfillment of that requirement.)

C. Professional Education and related courses: 48.271 or 60.391; 60.311; 60.301; 60.393; 62.302; 62.371; 62.398; 05.321.

D. Specialization: 70.101; 70.200; 70.251; 70.250; 70.331; 70.332; 70.353; 70.350; 70.351; 70.461; 70.401.

E. Elective Courses: if necessary to complete the minimum of 128 semester hours for graduation.

8.04 DEPARTMENT OF COMMUNICATION DISORDERS

The objective of this curriculum is to prepare personnel to work in public schools, hospitals, clinics and rehabilitation centers with individuals who are handicapped in speech, hearing and language.

Upon successful completion of the curriculum and recommendation by the College, certification in speech correction is granted by the Pennsylvania Department of Education. The curriculum provides academic and clinical work which constitute part of the prerequisite for the Certificate of Clinical Competence in Speech Pathology or Audiology issued by the American Speech and Hearing Association; additional prerequisites include a master's degree and certain prescribed experience.

Students in the Curriculum in Communication Disorders are required to complete the master's degree before they are eligible for recommendation by the College for Certification. (The requirements for the master's degree appear in the Graduate Catalogue.)

Admission to the undergraduate curriculum in Communication Disorders is selective (see Section 6.1 of this catalogue). Students must take a minimum of nine semester hours in courses of the Department of Communication Disorders before they may apply for admission. The normal time for application by regular students is in the middle of the sophomore year. Transfer students, readmitted students, graduate students in Communication Disorders who have undergraduate deficiencies and students who are re-applying for admission compete on equal terms with regular students at each selection period.

Selection within the quota for each selection period is determined by rank in Quality Point Average in the courses that have been taken in the Department of Communication Disorders; if applicants are tied at the cutoff point for the quota, the Cumulative Quality Point Average determines selection among them; other professional factors determine the selection in case there is a tie in both of these measures—in this case the decisions are made by the faculty of the Department.

The precise quota for each selection period is pre-determined by the Department in the light of the projected capacity of clinical facilities, subject to a maximum of thirty-five students to be admitted each year.

Students who are not admitted may re-apply at a subsequent selection period.

A minor in Education of the Hearing Impaired has been planned for students in Elementary Education. The courses in this minor may also be taken by students in Secondary Education, Business Education, Special Education and Early Childhood Education. Students who elect this sequence may seek advisement from the faculty of the Department of Communication Disorders. Students who complete the courses of the minor in addition to their teacher education major are eligible to compete for admission to the graduate program in Education of the Hearing Impaired.

CURRICULUM IN COMMUNICATION DISORDERS

(Dr. James Bryden, Curriculum Coordinator)

A. General Education. (See Section 6.3)

B. Professional and related requirements: Communication Disorders 74.152, 251, 252, 253, 276, 351, 352, 376, 402, 460, 461, 467; English: 20.311; Biology: 50.366;

Fifteen semester hours elected with departmental approval from 74.302, 390, 452, 466, 472, 475, 480, 48.101, 211, 260, 321, 375, 416, 70.101, 255, 20.411, 46.440.

C. Elective courses to complete the minimum graduation requirement.

8.05 MEDICAL TECHNOLOGY CURRICULUM

(Dr. Donald D. Rabb, Curriculum Coordinator)

The formal program in Medical Technology consists of 98 semester hours of courses prescribed by the College, followed by one year of clinical study and experience in an approved School of Medical Technology. Bloomsburg State College has formed affiliations with: Abington Memorial Hospital, Abington, Pa.; Geisinger Medical Center, Danville, Pa. (major affiliate); Lancaster General Hospital, Lancaster, Pa.; Mercy Catholic Medical Center of Southeastern Pennsylvania, Darby, Pa.; Robert Packer Hospital, Sayre, Pa.; Sacred Heart Hospital, Allentown, Pa.; St. Joseph's Hospital, Reading, Pa.; Wilkes-Barre General Hospital, Wilkes-Barre, Pa.; Williamsport Hospital, Williamsport, Pa.

The student enrolls initially in Pre-professional Studies and follows the list of courses prescribed in the Medical Technology program. Application for transfer to the School of Professional Studies and formal admission to Medical Technology may be made after the student has earned thirty semester hours of credit and before the completion of sixty-four semester hours.

The student is assisted to apply for admission to clinical year programs, but admission is determined solely by the hospitals. More students apply than the schools of medical technology can accept; this permits the schools to be rigorously selective.

The cost of a clinical year varies widely. At one time, students in clinical programs were customarily paid a stipend, but only a very few schools have continued the practice. The majority provide no stipend but offer free tuition. A few charge tuition of \$300 per year or more.

The candidate may choose to satisfy either of two degrees as follows: the degree, *Bachelor of Science in Medical Technology* (B.S. in Med. Tech.) is conferred upon successful completion of the prescribed course work, the certification to the College of successful clinic experience, and the passing of the examination of the Board of Registry of Medical Technologists; or the degree

Bachelor of Science (B.S.) will be conferred upon successful completion of the course work and certification to the College of successful completion of the clinical experience, but without the passing of the Registry Examination.

A student who fails to gain admission to a clinical program at the end of the junior year may return to the College to complete the requirements for a baccalaureate degree or may take a leave of absence (See Section 4.08) to preserve his right to return later. Ordinarily the student can complete the Bachelor of Arts curriculum in Biology in one additional year; other curricula may require more time. Students who are on leave, as well as those who continue their studies, are eligible to reapply for admission to the clinical year programs.

The course requirements of the Medical Technology Program are:

A. General Education (See Section 6.3)

B. Specialization

Biology: 50.210; 50.332 or 333; 50.312 or 331 or 361 or 364; 50.371 or 372; 50.342;

Chemistry: 52.101* and/or 52.102; 52.211; 50.231 or 233; 50.232; 52.122;

Mathematics: 53.111 or 141;

Physics: 54.107;

Elective courses to complete 98 sem. hrs.

Certification of the clinical experience and registry examination is accepted for the final 30 semester hours of the 128 semester hour graduation requirement.

*52.101 may be waived through satisfactory score on a placement examination administered by the Department of Chemistry.

8.06 PUBLIC SCHOOL NURSING CURRICULUM

(Robert Bunge, Curriculum Coordinator)

This curriculum is being phased out. No new students are admitted, but current active students who maintain continuous enrollment or who return at the end of an official leave of absence will be permitted to complete the work as outlined in the 1974-75 catalog.

8.07 CURRICULUM FOR DENTAL HYGIENISTS

(Robert Bunge, Curriculum Coordinator)

The degree, Bachelor of Science in Education, will be conferred upon dental hygienists meeting the following require-

ments:

1. The possession of a valid license to practice dental hygiene in the Commonwealth of Pennsylvania issued by the State Dental Council and Examining Board and the Department of Education. (The professional education requirements for dental hygiene are the satisfactory completion of an approved dental hygienist course of instruction of two years of not less than thirty hours each week, or its equivalent in and graduation from a dental hygiene school approved by the State Dental Council and Examining Board.)
2. The satisfactory completion in addition thereto of 70 credit hours of professional and general education courses distributed as follows:

A. General Requirements (48 hours)

English 20.101, 102;
 Speech 25.103;
 Geography 41.101, 102;
 Sociology 45.211 or Anthropology 46.200;
 Literature, two electives; Speech, one elective; Art, one elective;
 Music, one elective; Political Science, one elective; Economics, one elective; History, two electives in World History, one in U.S. History.

B. Professional Education (9 hours)

Psychology 48.101, 271;
 Education 60.393;
 Proficiency in Educational Media.

C. Free Electives as necessary to complete the minimum of 70 semester hours.

8.08 DEPARTMENT OF NURSING

Purpose:

The purpose of the program is to offer preparation to individuals to enter a career as a professional nurse. Emphasis is on assisting students to develop knowledge, attitudes and skills to become professional nurse practitioners who are generalists and who can assume increasing responsibilities for:

1. maintenance and promotion of health,
2. assessment and nursing diagnoses,
3. therapy,
4. rehabilitation, and
5. leadership roles within health care systems in a variety of settings.

Degree:

Successful completion of the program leads to the degree, Bachelor of Science in Nursing (B.S.N.). After earning the baccalaureate degree, graduates take the registered nurse examination for licensure by the State Board of Nurse Examiners.

Admission:

Three categories of applicants may be considered: recent high school graduates, transfer students, and registered nurses. An individual who aspires to be admitted to the program must gain admission to the College (See Chapter 4 of this catalogue) and then apply for admission to the Department of Nursing. The number of applicants admitted to the program is limited to the number of clinical laboratory places available.

Applicants for admission to the nursing program must have had a chest X-Ray, and diphtheria, poliomyelitis, typhoid, small pox and tetanus immunizations, and must provide evidence of satisfactory dental and eye examinations. Admitted students must have annual chest X-Rays as required by law.

The Degree Program:

The program combines courses on the campus and clinical practice in patient care areas in selected health agencies, with the guidance of nursing students provided by the faculty of the Department of Nursing of the College.

The course requirements for the degree comprise:

A. General Requirements: (See Section 6.3 of this catalogue)

Note: A number of the prescribed courses in sciences and social sciences listed in the Specialization may also be applied by the student toward Groups II and III of the General Requirements. Students are encouraged to elect courses in such disciplines as anthropology, education, economics, philosophy, political science, and foreign language (in particular, Spanish).

B. Specialization: Biology: 50.342, 373, 374; Chemistry: 52.101, 113, 108; Psychology: 48.101, 211, and 3 semester hours elective under advisement; Sociology: 45.211, 213; Nursing: 82.201, 202, 301, 302, 303, 304, 306, 401, 402, 404. Statistics: One three semester hour course.

C. Free electives: Free elective courses are required if necessary to complete the minimum graduation requirement of 128 semester hours.

Retention:

Supplementing the retention standards of the College (See Section 5.05), students in the nursing program must maintain a

Q.P.A. of *at least* 2.0. Because of the nature of nursing, the nursing faculty reserves the right to retain only those students who, in its judgement, satisfy the requirements of scholarship, health, and personal suitability for nursing.

Sequence:

A suggested four-year sequence of the above requirements, planned for optimum systematic growth and development of students who enter the program directly from high-school graduation, is as follows:

FRESHMAN YEAR

Fall	sem. hrs.	Spring	sem. hrs.
50.173 Anatomy and Physiology	3	50.174 Anatomy and Physiology	3
20.____ Freshman English	3	20.____ English	3
52.101 Introductory Chemistry	3	50.342 Medical Microbiology	3
52.113 Chemistry Laboratory	2	48.____ Psychology Elective	3
48.101 General Psychology	3	52.108 Physiological Chemistry	3
05.____ Physical Education	1	05.____ Physical Education	1

SOPHOMORE YEAR

82.201 Nursing Science I	1-12	82.202 Nursing Science II	1-12
48.211 Developmental Psychology	3	45.213 Contemporary Social Problems	3
45.211 Principles of Sociology	3	Elective	3

JUNIOR YEAR

82.301 Advanced Nursing Science I ..	1-8	82.302 Advanced Nursing Science II. 1-8	
Statistics	3	82.304 Psychopathology	3
82.303 Pathophysiology	3	82.306 Methods of Inquiry	3
Elective	3	Elective	3
05.____ Physical Education	1	05.____ Physical Education	1

SENIOR YEAR

82.401 Community Health Nursing	1-12	82.402 Independent Project	3
Electives	6	82.404 Nursing Seminar	3
		Electives	6

Miscellaneous:

Students must supply their own transportation to clinical laboratory experiences. Uniforms, a sweep-second wrist watch, a stethoscope and such other equipment and supplies as may be required must be provided at student expense. Textbooks are apt to be more expensive than for many college programs.

8.09 ROTC

Army ROTC

Bloomsburg State College participates with Bucknell University in a cross-enrollment program which allows students to qualify for a commission in the U.S. Army upon graduation.

Army ROTC is a four-year experience open to men and women. It is divided into a basic program of four courses given during the Freshman and Sophomore years and the advanced program of four courses given during the Junior and Senior years. (The Director of Military Science can authorize a waiver of basic course requirements for a student who has prior active military service or who has completed high school level ROTC.) No service obligation is incurred until the beginning of the advanced program.

A special program, available to selected students who were unable to take the basic courses, permits them to enroll in the advanced courses after completing a basic summer camp between the Sophomore and Junior years. Students who attend the basic summer camp are paid at a rate equivalent to the basic pay for a private together with travel allowance, subsistence, housing, uniforms and medical care.

Students enrolled in the advanced courses receive subsistence pay of \$100.00 a month for not to exceed ten months a year. Successful completion of the advanced program requires attendance at an advanced summer camp, normally scheduled between the Junior and Senior years; payment during this camp is at a rate equivalent to one-half of the basic pay for a Second Lieutenant with less than two years of service together with a travel allowance, subsistence, housing, uniforms and medical care.

Students who complete the advanced program successfully qualify upon graduation for a commission as Second Lieutenant in the United States Army and incur a service obligation in the Army with active duty requirements that vary with the type of commission accepted.

A physical examination conducted by a medical doctor verifying the physical fitness of the student is required prior to acceptance into the ROTC program.

Army ROTC courses are listed under Code 67.

Airforce ROTC

Bloomsburg State College participates with Wilkes College in a program which allows students to qualify for commissions in the United States Air Force upon graduation.

The Air Force ROTC (AFROTC) provides a four-year program divided into the general military course (GMC) in the first two years and the Professional Officer Course (POC) in the last two years. A student may elect to enroll in either the total four-year program or the POC. Students in the four-year program take the GMC during the freshman and sophomore years and the POC during the Junior and Senior years, at-

tending four weeks of field training during the summer between the Sophomore and Junior years.

Members of the program are eligible to compete for AFROTC Scholarships.

For acceptance into the POC, the four-year program student must pass a physical examination and an Officer Qualification Test and must have attained an acceptable academic rating.

To qualify for direct entrance in the two-year POC program, students must have two academic years remaining at either the graduate or undergraduate level or a combination of the two. They must meet the physical standards, pass an Officer Qualification Test, have an acceptable academic rating and must successfully complete a six week field training course. Transfer students may elect the POC if they satisfy the above requirements.

Uniforms, equipment, and textbooks for the AFROTC work are supplied by Wilkes College and the United States Air Force. Students in the POC receive \$100.00 per month subsistence allowance. In addition, a limited number of scholarships are available to students in the program on a competitive basis.

Students who complete successfully the POC are commissioned as Second Lieutenants in the United States Air Force Reserve. They serve on active duty in the Air Force in a specialty as close as feasible to their academic training and consistent with Air Force needs.

Four semester hours of credit may be earned in the GMC and 12 semester hours in the POC.

Courses offered during the academic year are conducted at Wilkes College.

The field training required before entry into the POC is held at several operational bases each summer. Cadets have opportunity to observe, fly, and live with career personnel. Transportation from the legal residence of the Cadet to the field training base and return, food, lodging, and medical and dental care are provided by the Air Force. The Cadet receives approximately \$300.00 for the four-week field training or \$450.00 for the six-week training period.

The Department of Aerospace Studies at Wilkes College conducts a number of field trips to Air Force Installations. The trips include tours of the base and familiarization flights.

There is a flight instruction program, designed for Cadets in the POC who propose to enter Air Force Pilot training upon graduation, which identifies applicants who possess the qualifications necessary to fly high performance air craft. The program consists of a ground phase given by officers of the

detachment, and a flying phase with dual and solo flight instruction by a certified civilian flying school at government expense.

Airforce ROTC courses are listed under Code 68.

Corps Training

AFROTC cadets must participate in Corps Training one hour per week during each semester. This program involves a progression of experience designed to develop each student's leadership potential in a supervised training laboratory. Areas examined: Air Force customs and courtesies; drill and ceremonies, career opportunities; life and work of an Air Force junior officer.

Field Training

Candidates for enrollment in the POC will attend AFROTC field training during one summer. The training, conducted at selected Air Force bases, gives students an opportunity to observe Air Force units and people at work and at home, participate in marksmanship, survival, athletics, leadership training activities, take aircraft orientation flights, and work with contemporaries from other states. Students in the four-year program attend a four-week session while candidates for the two-year program must complete a six-week program.

8.10 STUDENT AND COMMUNITY SERVICES IN THE SCHOOL OF PROFESSIONAL STUDIES

Speed Reading

Beginning early in each semester, several sections of speed reading are offered to students on a "first come—first served" basis. Classes are limited to ten students. Announcements appear in the Maroon and Gold. Classes usually are held two or three days a week for six weeks.

Speech, Hearing and Language Clinic

This Clinic, located in Navy Hall, provides a number of services to students, faculty, staff and total community. Evaluative services available are: speech, voice, language, hearing, hearing aid evaluation, and educational-psychological services. Therapeutic services offered are speech and language therapy, auditory training, speech reading, educational therapy for the hearing impaired and parent counseling. Services of the clinic are free to Bloomsburg State College students, faculty and staff.

Reading Clinic

The Reading Clinic, located in Benjamin Franklin Hall, offers diagnostic evaluation of reading skills, including selected standardized reading tests, Lovell Hand-Eye Co-ordination test and tele-binocular examination. After evaluation, remedial clinical instruction is provided if desired, including parent counseling. This is a continuing year-round service for which a fee schedule is available upon request, but no person is denied service because of financial need.

8.11 Course Descriptions

EDUCATIONAL STUDIES AND SERVICES

Professors H. M. Afshar, Howard K. Macauley, Jr., Robert C. Miller, Ray C. Rost (Chairperson), David E. Washburn, Matthew Zoppetti; Associate Professor Thaddeus Piotrowski (Associate member); Assistant Professor James H. Neiswender.

COURSES

(Code 60)

Courses marked † may be used toward General Education.

60.101 THE SCHOOL IN CONTEMPORARY AMERICAN SOCIETY † 3 sem. hrs.

American education is analyzed in terms of its interaction with other institutions within the social order. Designed as a General Education course for arts and science students.

60.301 EDUCATIONAL MEDIA 2 sem. hrs.

A comprehensive study of communicative media. Laboratory sessions in use of audio-visual materials in education.

Prerequisite: 60.393.

60.311 EDUCATIONAL MEASUREMENTS AND EVALUATION 3 sem. hrs.

Principles of evaluation; grading; representative standardized tests; vocabulary of measurement, test construction.

60.391 LEARNING AND THE LEARNER 3 sem. hrs.

Psychological foundations of education: individual differences; learning theories applies to classroom situations; physical and mental growth; personality development and mental hygiene.

Prerequisite: Psychology 48.101; Ed. 60.311 (or permission of instructor)

60.392 HISTORICAL AND INTELLECTUAL FOUNDATIONS OF AMERICAN EDUCATION † 3 sem. hrs.

Development of American education in the perspective of history.

60.393 SOCIAL FOUNDATIONS OF EDUCATION † 3 sem. hrs.

Social processes underlying education: current social forces; the place of the school in American culture; impact of social stratification; role of the teacher in a period of rapid social change.

60.394 EDUCATION IN URBAN SOCIETY † 3 sem. hrs.

Systematic study of problems of education in the urban setting. Designed primarily for students who plan to teach in urban schools.

60.421 CURRICULUM DEVELOPMENT 3 sem. hrs.

Current curricular offerings of elementary and secondary schools. Emphasis upon philosophical, social, political and technical trends in the community, nation, and the world, and their effect upon the role of the teacher and the school in curriculum development.

60.431 INDEPENDENT STUDY 1-3 sem. hrs.

Admission only with consent of the department chairperson.

60.440 WORKSHOP IN EDUCATIONAL MEDIA 1-6 sem. hrs.

Study of selected topical areas as related to media technique skills, and programs, May include research by individual students.

60.441 WORKSHOP IN EDUCATION 3-6 sem. hrs.

Study of selected areas in elementary or secondary education including research by individual students in a special teaching field.

Prerequisite: Nine semester hours in education, and teaching experience.

60.451 PUPIL PERSONNEL SERVICES IN THE PUBLIC SCHOOL 3 sem. hrs.

A comprehensive study of pupil personnel services in elementary and secondary schools: school attendance, school health programs, pupil transportation, psychological services, guidance services.

ELEMENTARY EDUCATION

Professors Donald C. Miller (Chairperson), Ann Marie Moakes, Donald A. Vannan, Lynn A. Watson; Associate Professors John Hranitz, Warren I. Johnson, William O'Bruba, Edward Warden, William S. Woznek; Assistant Professors Hennetta Bechrens, Richard J. Donald, Charlotte M. Hess, Gorman Miller.

COURSES

(Code 62)

62.302 METHODS AND MATERIALS IN ELEMENTARY SCHOOL SCIENCE 3 sem. hrs.

Emphasis is placed on the major methods and materials used in elementary school science. The three major national programs of AAAS, SCIS, and ESS; individualized instruction; the "discovery" approach. A programmed textbook is used through which the student may move at his own rate of speed.

Prerequisites: 3 semester hours in biology and 3 semester hours in physics.

**62.303 METHODS AND MATERIALS IN
ELEMENTARY SCIENCE N-K-3 3 sem. hrs.**

Classroom activities from American schools and British Infant School programs; discovery method is stressed.

**62.304 ENVIRONMENTAL EDUCATION FOR THE
ELEMENTARY SCHOOL TEACHER 3 sem. hrs.**

Learning experiences for the elementary school level; integration of the topic with other curriculum areas.

**62.321 INTRODUCTION TO EARLY CHILDHOOD
EDUCATION 3 sem. hrs.**

An examination of the historical and philosophical foundations of Early Childhood Education. Analysis of current trends and practices for teaching children from the ages of birth to six. Open to students of all curricula and in-service teachers.

Prerequisites: 48.201 and 48.211.

**62.322 SEMINAR IN LEARNING EXPERIENCES
WITH YOUNG CHILDREN 3 sem. hrs.**

Physical, mental, emotional and social levels of children from birth to age 6, with attention to environmental factors that foster child growth; pre-school and kindergarten programs to meet the needs of this age child and to provide the background of experience needed for later ventures into reading, arithmetic, science, social studies, music, art, literature, physical education and health.

Prerequisite: 48.101, 48.211.

**62.371 TEACHING OF READING IN THE
ELEMENTARY GRADES 3 sem. hrs.**

Developmental reading from readiness through the entire elementary school curriculum.

62.372 FOUNDATIONS OF READING INSTRUCTION 3 sem. hrs.

The reading program in the elementary and/or secondary school: comprehension, speed, study skills, library skills, recreation and enrichment, and methods of using information. Development of an elementary or a secondary school reading program required of each student.

Prerequisite: Psychology 48.271.

62.373 DIAGNOSTIC AND REMEDIAL READING 3 sem. hrs.

Diagnostic and remedial procedures emphasizing both standardized and informal techniques. Designed for elementary and/or secondary school teachers.

Prerequisite: 62.371 and/or 62.372.

**62.375 READING FOR THE SOCIALLY DISADVANTAGED
CHILD 3 sem. hrs.**

Methods and materials for the instruction of the disadvantaged child (K-12). Techniques and theories are presented as they may be applied to help the socially disadvantaged child function more adequately in the school environment.

62.376 LANGUAGE EXPERIENCES FOR CHILDREN 3 sem. hrs.

Language development of children and factors that influence skill in effective communication development from nursery school through the sixth grade. The course is also designed to provide a background for studies in language arts and literature for children.

62.389 INDIVIDUALIZING INSTRUCTION ACTIVITIES IN THE ELEMENTARY SCHOOL 3 sem. hrs.

Designed for elementary education students with junior standing or above. The course emphasizes procedures for helping individuals learn, the informal school concept, and rearranging the elementary classroom into an efficient and effective learning area with emphasis on language arts centers, mathematics centers, science centers, and social studies centers. British elementary education; elementary education in North Dakota and Vermont.

62.395 CURRICULUM AND INSTRUCTION IN THE ELEMENTARY SCHOOL 6 sem. hrs.

Curriculum study, methods and practices in the language arts, and social studies. Includes educational media.

Prerequisite: 60.393; 60.391 or 48.271.

62.396 DISCOVERING MATHEMATICAL EXPERIENCES FOR THE YOUNG CHILD 3 sem. hrs.

Designed for prospective teachers who will be certified to teach at the nursery school through grade three level. Major emphasis on an activities centered approach.

62.397 SCIENCE AND MATHEMATICS IN THE ELEMENTARY SCHOOL 3 sem. hrs.

Designed to provide prospective elementary teachers with the methods, materials, skills, understandings and attitudes to help them to meet the needs of children in the areas of science and mathematics.

Prerequisite: three sem. hrs. in Biology; three sem. hrs. in Physics; six sem. hrs. in mathematics.

62.398 METHODS AND MATERIALS IN MATHEMATICS IN THE ELEMENTARY SCHOOL 3 sem. hrs.

Mathematical methods, materials, understandings and attitudes essential in the teaching of contemporary programs in the elementary school.

Prerequisite: 6 sem. hrs. in mathematics.

62.401 STUDENT TEACHING IN THE ELEMENTARY SCHOOL 12 sem. hrs.

Scheduled on full semester basis with a minimum of 30 hours per week. Opportunities for direct participating experience at two grade levels and in as many areas of the elementary curriculum as possible. Association with carefully selected master teachers.

Prerequisite: Quality Point Average and other qualifications for admission to and retention in teacher education.

62.404 INTERIM TEACHING IN THE ELEMENTARY SCHOOL 3-6 sem. hrs.

Full-time teaching in the elementary school with an interim certificate under the direction and supervision of the professional staff in co-operation with local school districts.

62.411 PROFESSIONAL PRACTICUM SEMINAR IN ELEMENTARY EDUCATION 3 sem. hrs.

Designed for Elementary student teachers. Includes references to School Law, Professional Ethics and current educational research. Scheduled concurrently with Student Teaching.

62.431 INDEPENDENT STUDY IN ELEMENTARY EDUCATION1-3 sem. hrs.

Consent of the Department Chairperson required.

62.432 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL 3 sem. hrs.

Current objectives, methods and materials in the area of Social Studies in the elementary school. Psychological and sociological needs of children as they are related to the development of a social studies program in the modern school.

62.433 LANGUAGE ARTS IN THE ELEMENTARY SCHOOL 3 sem. hrs.

Introduction to the subjects called the language arts. Problems, methods, techniques and materials related to instruction in the several branches of this area of the elementary school curriculum.

62.441 ELEMENTARY EDUCATION WORKSHOP 3 sem. hrs.

Permits teachers in service to engage in individual or group study of classroom subjects or problems of interest or concern to them in their teaching.

62.442 WORKSHOP, TEACHING SCIENCE IN THE ELEMENTARY SCHOOL 3 sem. hrs.

Primarily designed for teachers in service. Construction of teaching materials to be used in the classroom, investigation into problems in an inquiry approach, and learning of the basic steps of the scientific methods of problem solving and methods of developing a scientific attitude in children are aspects of the course.



SECONDARY EDUCATION

Associate Professors Raymond E. Babineau, Glenn A. Good, Martin M. Keller, Milton Levin, A. J. McDonnell (Chairperson), Kenneth Whitney.

COURSES

(Code 65)

65.374 TEACHING OF READING IN ACADEMIC SUBJECTS 3 sem. hrs.

Understanding and techniques for developing reading skills applicable to the secondary school. Emphasis on readiness, comprehension, silent reading, and oral reading through secondary school academic subjects.

65.396 CURRICULUM AND INSTRUCTION IN THE SECONDARY SCHOOL..... 4 sem. hrs.

A competency based experience which involves significant pre-professional activities. Broad areas of study include: secondary school curriculum, educational decision making, instructional planning, strategies and evaluation, classroom management and educational innovation. The studies are complemented by an educational media laboratory experience and the Assistant Teacher Program which places the student in a working relationship with a local secondary school teacher. The student registers for 65.396 and the appropriate accompanying course from the following list: (Each course carries 3 semester hours credit.)

65.351—Teaching of English in the Secondary School

65.352—Teaching of Mathematics in the Secondary School

65.353—Teaching of Biological Science in the Secondary School

65.354—Teaching of Physical Science in the Secondary School

(Offered Spring Semester Only)

65.355—Teaching of Social Studies in the Secondary School

65.356—Teaching of Speech in the Secondary School (offered Spring semester only)

65.357—Teaching of Geography and Earth/Space Science in the Secondary School

65.358—Teaching of Spanish in the Secondary School

65.359—Teaching of French in the Secondary School } Offered spring

65.360—Teaching of German in the Secondary School } semester only

Prerequisite: Psychology 48.101; Education 60.391 or Psychology 48.271; Education 60.393; junior standing in one of the curricula in Secondary Education.

65.402 STUDENT TEACHING IN THE SECONDARY SCHOOL 12 sem. hrs.

Students are assigned to public schools where they work with selected classroom teachers and college supervisors in teaching experiences. Students follow the same schedule and assume the same responsibilities as their cooperating teachers. Further information, including location of off-campus centers is given in Section 8.2.

Prerequisite: Education 65.396; QPA as prescribed for 62.401.

65.404 THE PROFESSIONAL SEMESTER IN BUSINESS EDUCATION 15 sem. hrs.

The Professional Semester comprises three major activities: A. A ten-

day field experience to observe the overall operation of a school system; B. An eight-week period of classroom study correlated with participatory teaching activities; and C. An eight-week period of full-time supervised student teaching.

**65.405 INTERIM TEACHING IN THE
SECONDARY SCHOOL 3-6 sem. hrs.**

Full-time teaching in the secondary school with an interim certificate, under the direction and supervision of the professional faculty in cooperation with local school districts.

65.411 SEMINAR IN SECONDARY EDUCATION 3 sem. hrs.

Activities center around concerns and problems encountered in the teaching assignments of the participants. The range of activities is determined by individual need and by levels of professional competency including diagnosis, mutual development of objectives, and self-evaluation.

65.431 INDEPENDENT STUDY1-3 sem. hrs.

Consent of the Department Chairperson required.

65.441 SECONDARY EDUCATION WORKSHOP 3-6 sem. hrs.

Designed for both teachers in service and upper level undergraduates. Study of selected areas in secondary education. Individual or group study of classroom subjects of interest or concern in teaching.

MILITARY SCIENCE

Coadjutant Instructors in Military Science: Lt. Col. John T. Whann, Maj. Douglas H. Barr, Capt. Judy E. Hanna. Coordinator: Dr. Ray C. Rost.

**ARMY ROTC
(Code 67)**

**BASIC PROGRAM
(Freshman and Sophomore Years)**

**67.110 INTRODUCTION TO MILITARY
SCIENCE 1 sem. hr.**

The military as a profession. Organization of the army with emphasis on career opportunities for ROTC graduates. Introduction to basic soldiering techniques, military weapons, and equipment.

67.120 INTRODUCTION TO TACTICS 1 sem. hr.

Functions and responsibilities of a leader within the smallest element of the Army. Principles of military estimates and orders. Tactical concepts and principles applied to a small unit.

**67.210 INSTRUCTION MANAGEMENT AND
TERRAIN ANALYSIS 1 sem. hr.**

Fundamentals of educational psychology applicable to military

instruction; techniques used in planning, presenting and evaluating instruction. Land navigation procedures including use of maps, aerial photographs, and other topographic information.

67.220 SMALL UNIT TACTICS 1 sem. hr.

The functions and responsibilities of leaders at the platoon level of command. Platoon level tactical concepts and principles. Continued development of leadership through practical exercise.

**67.230 ROTC BASIC CAMP,
Sophomore Summer Semester 4 sem. hrs.**

(This course is offered in lieu of the Freshman and Sophomore courses for transfer students and other students who enter the program at the Junior level.)

**ADVANCED PROGRAM
(Junior and Senior Years)**

67.310 ADVANCED MILITARY SCIENCE 3 sem. hrs.

Analysis of the leader's role in directing the efforts of individual and small units during military operations to include military geography, weapons systems, communications, and intelligence gathering. Army structure within the Division.

**67.320 CASE STUDIES IN LEADERSHIP
AND MANAGEMENT 3 sem. hrs.**

Delegation of authority and responsibility, span of control, planning, coordinating and decision making procedures. Analysis of military problems and leadership situations, and the preparation and delivery of logical solutions. (During this semester, students are required to participate in a pre-camp orientation program of physical and mental preparation for the rigors of advanced camp training and testing.)

**67.330 ROTC ADVANCED CAMP,
Junior Summer Semester 6 sem. hrs.**

**67.410 SEMINAR IN LEADERSHIP AND
MANAGEMENT 3 sem. hrs.**

Military Law and its relationship to the civil government structure. The position of the United States in the contemporary world scene and its impact on military leadership and management problems. Management planning within the Cadet Corps organization.

**67.420 THEORY AND DYNAMICS OF THE
MILITARY TEAM 3 sem. hrs.**

Analysis of military leadership and management problems; application of leadership principles with practical experience *via* a teaching practicum. Responsibilities of an officer on active duty.

AEROSPACE STUDIES
(Code 68)
GENERAL MILITARY COURSES

The General Military Courses (GMC) constitute a two-year program for freshmen and sophomores designed to provide general knowledge of the role, organization, missions, and historical development of U.S. air power. Students enrolled in the GMC who are not on Air Force scholarships incur no military obligations.

**68.110 U.S. MILITARY FORCES IN THE
CONTEMPORARY WORLD I 1 sem. hr.**

Background, missions, and functions of U.S. military forces, with emphasis on U.S. Air Force organization, doctrine, and strategic forces.

**68.120 U.S. MILITARY FORCES IN THE
CONTEMPORARY WORLD II 1 sem. hr.**

U.S. general purpose military forces; insurgency and counter-insurgency; aerospace support forces and organizations.

68.210 THE DEVELOPMENT OF AIR POWER I 1 sem. hr.

Air power development in historical perspective through the end of World War II; evolution of missions, concepts, doctrine, and employment, with emphasis on changes in conflict and factors which have prompted technological developments.

68.220 THE DEVELOPMENT OF AIR POWER II 1 sem. hr.

Air power development from the end of World War II to the present; changing missions and employment of air power in support of national objectives.
Prerequisite: 61.210.

PROFESSIONAL OFFICER COURSES

The Professional Officer Courses (POC) constitute a four-semester program, normally taken during the junior and senior years, mandatorially leading to commissioning as an Air Force officer. The POC concentrates on national defense policy, concepts and practices of management, and concepts and practices of leadership.

**68.310 NATIONAL SECURITY FORCES IN
AMERICAN SOCIETY I 3 sem. hrs.**

The role and functions of the professional military officer in a democratic society, and civil-military interaction; basic framework of defense policy and formulation of defense strategy; development of individual communicative skills.
Prerequisite: POC membership or permission of the instructor.

**68.320 NATIONAL SECURITY FORCES IN
AMERICAN SOCIETY II 3 sem. hrs.**

The problems of developing defense strategy in a rapidly changing technological environment; effective deterrent posture and management of conflict; dynamics and agencies of defense policymaking analyzed through case studies.

Prerequisite: 61.310 or permission of instructor.

68.410 CONCEPTS OF MANAGEMENT 3 sem. hrs.

General theory and practice of management with special reference to the Air Force; study of information systems, quantitative approach to decision making, and resource control techniques; development of communicative skills.

Prerequisite: 61.320 or permission of the instructor.

68.420 CONCEPTS OF LEADERSHIP 3 sem. hrs.

Air Force leadership at the junior officer level, including its theoretical, professional, and legal aspects; practical experience in influencing people, individually and in groups, to accomplish organizational missions effectively; development of communicative skills.

Prerequisite: 61.410 or permission of the instructor.

SPECIAL EDUCATION

Professors William Jones, Andrew J. Karpinski (Chairperson), John M. McLaughlin, Jr., Emily A. Reuwsaat, Margaret S. Webber; Associate Professor Kenneth P. Hunt, James T. Reifer; Assistant Professors Mary Barrall, Colleen Marks, Carroll J. Redfern, Joseph Youshock.

COURSES

(Code 70)

**70.101 (201) INTRODUCTION TO SPECIAL
EDUCATION 3 sem. hrs.**

The educational problems of exceptional children. History and philosophy of special education programs for exceptional children.

**70.200 (71.201) INTRODUCTION TO
MENTAL RETARDATION 3 sem. hrs.**

Overview of behavioral and learning characteristics of the mentally retarded. Etiology and environmental aspects of development of the mentally retarded. Observations of special classes; field trips to institutions.

70.250 (450) BEHAVIOR DISORDERS 3 sem. hrs.

Psychological development of behavior and its effect on the child's school performance. The effect of the school on the child is also discussed as are intervention approaches in educating emotionally disturbed children.

Prerequisites: Psychology 48.101.

70.251 (455) LEARNING DISABILITIES 3 sem. hrs.

A study of the characteristics and symptoms of specific learning disorders. Students are introduced to diagnostic and educational procedures used with learning disorders. Emphasis is on perceptual and conceptual factors in the development of language skills.
Prerequisites: Psychology 48.101, and 48.371;

**70.253 (71.353) METHODS AND MATERIALS FOR TEACHERS
OF THE LOW FUNCTIONING MENTALLY
RETARDED 3 sem. hrs.**

Introduction to methods and materials of instruction suitable for mentally retarded individuals who have severe multiple disabilities. Observations of and participation in public school and residential programs.
Prerequisite: Junior or senior standing.

**70.255 (355) EXPERIENCE WITH EXCEPTIONAL
CHILDREN 1-3 sem. hrs.**

Experience working individually with exceptional children in various settings.
Prerequisite: Junior or senior status and permission of instructor.

70.256 (356) THE GIFTED CHILD 3 sem. hrs.

The primary purpose of this course is to familiarize students with the physical, mental, emotional and social characteristics of the mentally gifted, the teaching procedures, types of organizations, and curricular materials used in their education.

70.331 (451) LANGUAGE I 3 sem. hrs.

An introduction to language and speech problems commonly found among school children; practical methods and attitudes for improvement of communication in the classroom setting. Open to students of all curricular and in-service classroom teachers.

70.332 (71.432) LANGUAGE II 3 sem. hrs.

A student-centered workshop approach in analysis of methods, research and philosophies in current use in the teaching of the language arts to special classes. Practice in the use of teaching aids and machines related to student projects in language arts applicable to individual needs of children in special classes.
Prerequisite: Education 62.371, 70.350.

**70.350 (71.351) METHODS FOR ELEMENTARY
SPECIAL EDUCATION 3 sem. hrs.**

Organization of instruction for trainable and educable mentally retarded. Curriculum methods and materials for primary and intermediate levels. Observation of special classes and construction of teaching materials.
Prerequisite: 70.200 and Junior or Senior status.

**70.351 (71.352) METHODS FOR SECONDARY
SPECIAL EDUCATION 3 sem. hrs.**

A student-centered workshop approach in analysis of methods, research, and philosophies currently in use in the teaching of the mentally

retarded. Practice in the use of various teaching aids and machined related to student projects in secondary special classes for the mentally retarded.
Prerequisite: 70.200 and Junior or Senior status.

70.353 ASSESSMENT AND PLANNING 3 sem. hrs.

Formal and informal assessment devices and procedures; gathering information about the learner prior to instruction concerning appropriate instructional tasks, sensory channels, interest areas, and social skills. Ways of developing informal assessments, gathering observational information, storing information and planning for instruction.

70.357 PRE VOCATIONAL AND VOCATIONAL EDUCATION 3 sem. hrs.

Develop a philosophy of vocational education for the mentally or physically handicapped; knowledge of programs and strategies to develop their pre-vocational and vocational skills; materials and assessment procedures appropriate for these students and programs.

70.375 (71.375) INDIVIDUAL PROJECT 1-3 sem. hrs.

Project planned according to interests and needs of the individual student in any of the following suggested areas: library research, curriculum study, internship in special aspects of education programs.
(Open to juniors and seniors only with staff approval.)

70.401 (71.401) STUDENT TEACHING, EXCEPTIONAL CHILDREN 12 sem. hrs.

Thirty hours per week of supervised student teaching experience under the direction of the professional staff in cooperation with local and state school divisions.
Prerequisite: concurrent with 70.461.

70.403 (71.403) INTERIM TEACHING IN SPECIAL CLASSES 3-6 sem. hrs.

Full-time teaching with an interim certificate under the direction and supervision of the professional staff in cooperation with local and state schools.

70.461 (71.361) PROBLEMS IN SPECIAL EDUCATION 3 sem. hrs.

Practical problems of teaching special classes for the mentally retarded. Organization and administration of classes, coordination with various personnel serving the students, integration and curriculum problems, facilities, equipment and materials. Educational Media. Pennsylvania State School Law and State mandated special services. Teacher competence and problems pertinent to student teaching.
Prerequisite: concurrent with 70.401.

70.490-491-492 SPECIAL WORKSHOP 1-6 sem. hrs.

Temporary special workshop seminar designed to focus on contemporary trends and problems in the field of Special Education. Lectures, resource speakers, team teaching, field experience and practicum, new media and related techniques will be utilized.

**70.401 (71.401) STUDENT TEACHING,
EXCEPTIONAL CHILDREN 12 sem. hrs.**

Thirty hours per week of supervised student teaching experience under the direction of the professional staff in cooperation with local and state school divisions.

Prerequisite: concurrent with 70.461.

**70.403 (71.403) INTERIM TEACHING IN
SPECIAL CLASSES 3-6 sem. hrs.**

Full-time teaching with an interim certificate under the direction and supervision of the professional staff in cooperation with local and state schools.

70.461 (71.361) PROBLEMS IN SPECIAL EDUCATION 3 sem. hrs.

Practical problems of teaching special classes for the mentally retarded. Organization and administration of classes, coordination with various personnel serving the students, integration and curriculum problems, facilities, equipment and materials. Educational Media. Pennsylvania State School Law and State mandated special services. Teacher competence and problems pertinent to student teaching.

Prerequisite: concurrent with 70.401.

70.490-491-492 SPECIAL WORKSHOP 1-6 sem. hrs.

Temporary special workshop seminars designed to focus on contemporary trends and problems in the field of Special Education. Lectures, resource speakers, team teaching, field experience and practicum, new media and related techniques will be utilized.

COMMUNICATION DISORDERS

Professors James D. Bryden (Chairperson), Margaret C. Lefevre, Gerald W. Powers; Associate Professors Benjamin S. Andrews, Robert J. Kruse; Assistant Professors Melinda A. Graham, Colleen J. Marks, G. Donald Miller, Richard M. Smith, and Andrew P. Stewart.

COURSES

(Code 74)

74.101 CLINICAL VOICE AND ARTICULATION 1 sem. hr.

Voice production and articulation; individualized guidance with personal speech problems. *A clinic experience planned for any student who seeks to improve his voice and articulation.*

74.152 VOICE AND ARTICULATION 3 sem. hrs.

An introduction to the study of human communication and communication disorders: the role of professionals in speech and language pathology and education of the hearing impaired; basic processes and functions of human communication, typical problems of children and adults.

**74.201 HISTORY, EDUCATION AND
GUIDANCE OF THE DEAF 3 sem. hrs.**

The handicap of hearing impairment is explored with emphasis on the history of educational procedures and guidance in communicative, psychological and vocational rehabilitation.

74.251 PHONETICS 3 sem. hrs.

International Phonetic Alphabet is used. Students develop competence in reading and transcription of symbols. Introduction to physiological and acoustic phonetics.

74.252 SPEECH PATHOLOGY I 3 sem. hrs.

The neurophysiological bases of language and speech are studied as fundamental to the understanding of pathologies of language and speech.

Prerequisite: 74.152, 251.

74.253 SPEECH PATHOLOGY II 3 sem. hrs.

Continuation of detailed study of the speech and language pathologies. Research findings are explored.

Prerequisite: 74.252.

74.276 INTRODUCTION TO AUDIOLOGY 3 sem. hrs.

Causes, evaluation techniques, and rehabilitative procedures for various types of hearing problems; related auditory, speech, psychological, and educational factors; the roles of parent, educator, and specialist in the rehabilitation program. Hearing conservation procedures in schools and industry.

74.302 EXPERIENCE IN EDUCATION OF THE DEAF AND HEARING IMPAIRED 1-3 sem. hrs.

Experience working under supervision with deaf and hearing impaired children in the demonstration classroom or field facility.

Prerequisite: Permission of the instructor.

74.351 CLINICAL METHODS IN COMMUNICATION DISORDERS 3 sem. hrs.

Materials and methods applicable to clinical practicum are discussed. Opportunities for observing demonstrations by the staff are provided. Students are trained in differential diagnostic procedures and the administration of speech and language therapy programs.

Prerequisites: 74.152, 251, 252, 253.

74.352 CLINICAL PRACTICUM: COMMUNICATION DISORDERS 6 sem. hrs.

Students engage in supervised clinical work in the Speech, Hearing and Language Clinic or related facilities and are given increasing responsibility and experience with cases of greater complexity.

Prerequisite: 74.351.

74.376 AUDITORY TRAINING AND SPEECH READING 3 sem. hrs.

Current teaching methods for educating children and adults with moderate and severe hearing losses.

Prerequisite: 74.251, 276.

74.390 DIRECTED PROJECT IN COMMUNICATION DISORDERS 3 sem. hrs.

This course provides opportunity to carry out special in-residence or field projects in professional service programs under the direction of the

faculty or designated practitioners. A detailed project plan must be submitted for faculty approval prior to registration.

74.402 CLINICAL FIELD EXPERIENCE 12 sem. hrs.

A full semester program of 30 hours per week of supervised practicum in a field experience is provided for each student. Prospective speech and hearing clinicians gain experience by working with professional people in the field. Assignments emphasize provision at speech and hearing services in the Public School.

74.452 ANATOMY OF SPEECH AND HEARING MECHANISMS 3 sem. hrs.

Embryology, anatomy, neurology, and physiology of the larynx and ear. The processes involved in human speaking and hearing are explored.

74.460 PSYCHO-LINGUISTICS 3 sem. hrs.

Language as a psychological phenomenon; nature and acquisition of meaning, and the learning of systems; influences of verbal and nonverbal antecedent conditions on both verbal and nonverbal learning. Descriptive models of language mediators in behavior.

Prerequisites: 74.152, 251, 276.

74.461 CLINICAL PROBLEMS IN COMMUNICATION DISORDERS 3 sem. hrs.

Practical considerations of day to day problems encountered by the speech clinician and public school programs; Pennsylvania School Law and State mandated special service programs.

74.462 PROBLEMS IN EDUCATION OF THE DEAF AND HEARING IMPAIRED 3 sem. hrs.

The educational problem of hearing impairment and the functions of teachers in public and private educational settings.

74.466 ADVANCED CLINICAL PRACTICUM (Internship) 3 sem. hrs.

Clinical experience with more complex disorders. Differential diagnostic and therapeutic procedures for use in cases with cerebral palsy, aphasia, auditory impairments, cleft palate, and stuttering. Case studies and research are utilized.

Prerequisite: 74.351, 352.

74.467 PSYCHOLOGY OF SPEECH AND HEARING 3 sem. hrs.

Applications of the psychology of learning to communicative behavior and clinical problems. Current educational and therapeutic trends and practices.

Prerequisite: 74.351 or concurrent registration.

74.471 SEMINAR IN SPEECH PATHOLOGY 3 sem. hrs.

Pathological conditions resulting in communication problems are investigated; remedial techniques are considered in relation to current research findings.

Prerequisites: 74.252, 253, 351, 352.

74.472 MEASUREMENT OF HEARING LOSS 3 sem. hrs.

The anatomy and physiology of the hearing mechanisms. Etiology of hearing losses, interpretation of audiometric evaluations and available rehabilitative procedures. Laboratory experience in the administration of clinical audiometric evaluations. Emphasis on special tests and advanced audiometric procedures.

Prerequisites: 74.276, 376.

74.475 INTRODUCTION TO SPEECH SCIENCE 3 sem. hrs.

The physical properties of acoustic signals are considered as factors that affect the nature of production and subsequent reception of speech. Phonetic instrumentation is introduced in relation to the analysis and synthesis of speech. Application of principles of speech science to speech therapy and other areas.

Prerequisites: 74.152, 251, 253, 276, 376.

74.480 INDEPENDENT STUDY AND RESEARCH1-3 sem. hrs.

This course permits students to work under faculty guidance on library study of specified areas or on individual research or learning projects when particular needs cannot be met by registration in regularly scheduled courses. Credit is determined by the nature and scope of the project undertaken.

NURSING

(Code 82)

82.201 NURSING SCIENCE I 2-12 sem. hrs.

To orient the student to the theory and the skills needed to assist children in preventing illness and restoring health. The course comprises six interdependent modules: communications, nursing process and assessment, nursing skills and asepsis, clinical nursing, nutrition and pharmacology. Theory, 8 hrs. per week; Clinical Practice, 4 hours; Skills laboratory, 4 hrs. *Fall*.

Prerequisites: 50.342, 373, 374; 52.101, 113, 108; 48.211 (or concurrent).

82.202 NURSING SCIENCE II 2-12 sem. hrs.

To develop knowledge and increase skills relative to the care of patients with illnesses affecting post-adolescence to the middle and later years of life. The course is divided into six modules dealing with disturbances in: 1) fluid and electrolyte balance, 2) oxygenation and transportation, 3) cellular growth and bodily defenses against injury, 4) emotional equilibrium, 5) neural regulation, 6) chemical regulation. Theory, 8 hrs. per week; Clinical Practice, 10 hrs.; Skills Laboratory, 4 hrs.; Clinical Conference, 2 hrs. *Spring*

Prerequisites: 82.201.

82.301 ADVANCED NURSING SCIENCE I 2-8 sem. hrs.

To develop knowledge and skills in the application of sociological and physiological principles in the treatment of patients in ambulatory, acute, and chronic care settings throughout the age cycle. The course is divided into four modules, which are concerned with: 1) physical assessment, 2) health care, 3) short term care, and 4) long term care. Theory,

4 hrs. per week; Clinical Practice, 6 hrs.; Clinical Conference, 2 hrs. *Fall.*
Prerequisites: 82.201, 202; 203 (concurrent).

82.302 ADVANCED NURSING SCIENCE II 2-8 sem. hrs.

To increase competence in functioning as a professional nurse, and in a colleague relationship with other health care workers, with emphasis on responses to distress in various care settings throughout the age cycle. The course is divided into five modules: 1) mental assessment, 2) the community as a psychotherapeutic modality, 3) individual therapy, 4) group therapy, 5) family therapy. Theory, 4 hrs. per week; Clinical Practice, 6 hrs.; Clinical Conference, 2 hrs. *Spring.*

82.303 PATHOPHYSIOLOGY 3 sem. hrs.

To apply physiological principles as a means of understanding pathological clinical conditions. Limited to B.S.N. students. Theory and Demonstration, 3 hrs. per week; Laboratory, 4 hrs. *Spring.*
Prerequisites: 48.101, 211.

82.304 PSYCHOPATHOLOGY 3 sem. hrs.

To examine theories of mental illness with emphasis on prevention, research, and current treatment modalities. Opportunity is provided for student involvement in various treatment modalities. Limited to B.S.N. students. Theory, 3 hours per week, Laboratory, 4 hours. *Spring.*
Prerequisites: 48.101, 211.

82.305 EMOTIONAL ASPECTS OF PATIENT CARE 3 sem. hrs.

An opportunity to explore common emotional responses of patients in non-psychiatric settings.
Prerequisite: restricted to registered nurses.

82.306 METHODS OF INQUIRY 3 sem. hrs.

To orient the student to the research process including considerations of such concepts as variables, operational definition, sampling processes, types of research design, methodological approaches, and utilization of basic statistical data. Limited to B.S.N. students. Theory 3 hours per week. *Spring.*
Prerequisites: Statistics 48.260 or 45.460.

82.307 GERIATRIC NURSING 3 sem. hrs.

A course for Registered Nurses which focuses on the physiological and social aspects of aging, with emphasis on the assessment of problems and appropriate nursing intervention.

82.308 PSYCHO-THERAPEUTIC NURSING INTERVENTION 3 sem. hrs.

Primarily for Registered Nurses working with emotionally ill persons. The focus is on the assessment of the patient's emotional status and guidelines for appropriate intervention.

82.309 EPIDEMIOLOGY 3 sem. hrs.

For Registered Nurses. Focus is on studies of common epidemiological problems, with emphasis on the epidemiologic method of inquiry.
Prerequisite: for registered nurses.

**82.310 PHYSIOLOGICAL PRINCIPLES IN
CLINICAL NURSING PRACTICE 3 sem. hrs.**

Designed to review functional anatomy and physiological principles as they relate to problems encountered in clinical nursing practice.

Prerequisite: restricted to registered nurses.

82.401 COMMUNITY HEALTH NURSING1-12 sem. hrs.

To increase the students' knowledge through the application of concepts from a variety of scientific disciplines as a basis for understanding the dynamic interaction of individual and group values, reactions, and action behaviors in health-illness situations and other societal structures as they affect persons; levels of health and the provision of health care in the community setting, using a family-centered approach. The course consists of four modules: 1) health systems models, 2) epidemiology, 3) primary nursing, 4) cultural assessment. Limited to B.S.N. students. Theory, 4 hrs. per week; Clinical Practice, 14 hrs.; Health Conferences, 2 hrs. *Fall or Spring.*

Prerequisites: 82.301, 302, 303, 304.

82.402 INDEPENDENT PROJECT 3 sem. hrs.

To provide an opportunity for the student to investigate a clinical nursing or health problem independently with the guidance of a faculty member, using a scientific investigative approach. Limited to B.S.N. students. Theory, 3 hours per week. *Fall or Spring.*

Prerequisites: 48.260 or 45.460; 82.301, 302, 306.

82.403 CURRENT ISSUES IN NURSING PRACTICE 3 sem. hrs.

A study of current issues and developments in nursing and their implications for the future of the profession.

Prerequisite: restricted to registered nurses.

82.404 NURSING SEMINAR 3 sem. hrs.

To explore the nature of professionalization as it occurs in our society, with particular reference to the health care system. Current issues, trends, new concepts and dimensions in nursing are explored. Theory, 3 hours per week. *Fall or Spring.*



9. SCHOOL OF BUSINESS

9.1 GENERAL INFORMATION

The School of Business offers a curriculum in Business Administration with four options for specialization, and a curriculum in Business Education.

The curriculum in Business Administration is designed to prepare the student for a beginning position in business; the curriculum in Business Education leads to certification as a teacher of business subjects in secondary schools.

Students may enroll in the School of Business as freshmen. During the first year the student pursues basic courses, after which he applies for admission to his specialized curriculum.

9.2 BUSINESS ADMINISTRATION

Professors James B. Creasy, Bernard C. Dill, Norman L. Hilgar, Francis J. Radice; Associate Professors Charles M. Bayler, Lester J. Dietterick, Robert N. Watts; Assistant Professors J. Weston Baker, John E. Dennen, Francis J. Gallagher, John E. Hartzel, Robert M. Hutchison, David Khalifa, Richard McClellan, William Ruch, Robert P. Yori (Chairman).

Degree

The degree, Bachelor of Science in Business Administration, (B.S. in Bus. Adm.), is conferred upon successful completion of the Business Administration curriculum.

Objectives

The student in Business Administration should aim to develop specialized knowledge and skills applicable to his first employment. He should also consider it important to develop his potential for future growth that may lead to an eventual position of leadership; for this purpose he should seek a modern understanding of business in its relationship to society, of economic forces, of the intellectual processes involved in management decision-making and the modern decision-making tools, and he should be concerned for his personal development in such attributes as intellectual discipline and culture. These concerns should help him determine his choice of elective courses both in general education and in Business Administration subjects.

Curriculum Requirements

The curriculum in Business Administration requires the successful completion of five sets of courses.

A. General Education (See Section 6.3)

B. Core Courses: Mathematics 53.114; Economics 40.246 or Mathematics 53.118 or 53.123; General Business 90.331; Accounting 91.221, 222, 323; Information Processing 92.250; Management 93.342, 343, 344, 445, 446; Economics 40.211, 212, 346, 413.

C. Specialization in one of the following areas:

ACCOUNTING

General Business: 90.332;

Accounting: 91.321, 322, 421, 422, 423.

MANAGEMENT

General Business: 90.332; Information Processing: 92.252;

Management: 93.345, 444, 447.

BUSINESS ADMINISTRATION—ECONOMICS

Economics: 40.311, 312, 313; 422 or 423.

INFORMATION PROCESSING

92.252, 254, 350; 352 or 354; 452, 456.

D. Elective courses to complete a minimum of 63 semester hours in business and economics, chosen from: Economics 40.313, 315, 346, 410, 422, 423, 433, 446; General Business 90.332; Accounting 91.421, 422, 423, 430, 448; Information Processing 92.252, 350, 352, 452, 454, 456; Management 93.341, 345, 346, 348, 442, 443, 444, 445, 447, 449, 455; History 42.223; Psychology 48.452; Speech 25.307.

E. Free electives as required to meet the total 128 sem. hr. graduation requirement.

9.3 BUSINESS EDUCATION

Professors Ellen L. Lensing; Associate Professors Willard A. Christian (Chairperson), Clayton H. Hinkel, Margaret J. Long, Margaret E. McCern, Jack L. Meiss; Assistant Professor Doyle G. Dodson.

Degree

The degree, Bachelor of Science in Education (B.S. in Ed.), is conferred upon successful completion of the Business Education curriculum.

Certification

Upon completion of the curriculum and recommendation of the College, the State Department of Education issues an Instructional Level I certificate.

Objectives

The curriculum in Business Education is planned to develop specialized and professional knowledge and skills for a first position teaching business subjects in secondary schools and vocational-technical schools of the Commonwealth.

Admission

Freshmen who are interested in business education enroll initially as general students in the School of Business. Admission to the Business Education Curriculum is selective; students may apply for admission to the curriculum during their freshmen year. High school work in business subjects is not prerequisite to the college program.

Curriculum Requirements

The requirements of the curriculum include five sets of courses as follows:

A. General Education (Section 6.3)

B. Business Education Core courses: General Business: 90.101, 331, 332, 401; Accounting: 91.221; Information Processing: 92.250; Secretarial: 94.201, 202, 301; Economics: 40.211, 212; Principles of Sociology: 45.211 or Principles of Anthropology: 46.200; General Psychology: 48.101; Mathematics: 53.101; Introduction to Speech: 25.103; and Social Foundations of Education: 60.393.

C. Business Education Specialization. The student chooses one of the following specializations:

Accounting—General Business 90.334; Accounting 91.222, 321, 322; one course from 91.421, 422, 423; six semester hours from the Elective List below.

Secretarial—94.211, 212, 311, 333; Six semester hours from the Elective List below.

General (Secretarial and Accounting)—Accounting 91.222, 321, 322; Secretarial 94.211, 212, 311; General 90.334 or Secretarial 94.333; three semester hours from the Elective List.

Business Information Processing—Business Information Processing 92.250, 252, 350, 452, 454; Mathematics 53.111; Economics 40.246, 346.

Elective List: General 90.241; 90.334; Accounting 91.421, 422, 423; Information Processing 92.252; Management 93.341, 342; Other courses in business may be used upon recommendation of the adviser.

D. Professional Education: The student should have completed the following courses before enrolling in 65.404 Professional Semester in Business Education.

Psychology 48.101 General Psychology	3 sem. hrs.
Psychology 48.271 Educational Psychology	3 sem. hrs.
Sociology 45.211 Principles of Sociology	3 sem. hrs.
Education 60.393 Social Foundations of Education	3 sem. hrs.
Secondary Education 65.396 Curriculum and Instruction in the Secondary School	3 sem. hrs.
Secondary Education 65.404 Professional Semester in Business Education	15 sem. hrs.

E. Free Electives as required to complete the total graduation requirement of 128 sem. hrs.

9.4 COURSES

GENERAL

(Code 90)

90.101 INTRODUCTION TO BUSINESS ORGANIZATION AND FINANCE 3 sem. hrs.

A survey course open to all students. Subject area includes types of business organizations; functional areas of business operations; organizational structure; insurance; managerial controls utilized in business; management functions; and the relation of business to government and society.

90.241 SALESMANSHIP 3 sem. hrs.

Principles underlying the sales processes; the salesman in relation to his firm, his goods, and his customers; approach, demonstration, and close of individual sales transactions.

90.331 BUSINESS LAW I 3 sem. hrs.

Legal rights and liabilities; principles of law applicable to business transactions with particular reference to contracts, bailments, personal and real property, and sales; sources of law and judicial system.

90.332 BUSINESS LAW II 3 sem. hrs.

Principles of law as they pertain to negotiable instruments, guaranty and surety contracts, insurance, principal and agency relationships, bankruptcy proceedings, and estates and trusts.

Prerequisite: 90.331.

90.334 BUSINESS MATHEMATICS 3 sem. hrs.

Concepts and principles related to fundamental business operations. Credit, insurance, taxes, selling and finance, investments, the interpretation

of statistical data; methods of teaching business arithmetic in the secondary school.

90.346 QUANTITATIVE ANALYSIS 3 sem. hrs.

Introduces the student to operations research techniques, tools, and their applications in business.

**90.401 RECORDS MANAGEMENT AND
OFFICE MACHINES 3 sem. hrs.**

Office dictating and transcribing machines; adding-listing machines; printing rotary, and key-driven calculators; filing systems, business papers, and office procedures; teaching methods and techniques.

Prerequisite: 94.202.

90.431 INDEPENDENT STUDY IN BUSINESS 1-3 sem. hrs.

Open to Seniors only. Topic and outline of Project must be approved by Dean and Faculty Sponsor.

90.432 INTERNSHIP IN BUSINESS 1-15 sem. hrs.

Provides students with opportunities to acquire meaningful experiences in practical work situations in accounting, management, finance, marketing, and related fields.

Prerequisite: Approval by Department Chairperson.

ACCOUNTING

(Code 91)

91.221 PRINCIPLES OF ACCOUNTING I 3 sem. hrs.

Development of the accounting cycle covering both service and merchandising activities of a sole proprietorship; special journals and special ledgers, accrued and deferred items, and business papers.

91.222 PRINCIPLES OF ACCOUNTING II 3 sem. hrs.

Further development of the accounting cycle; recording, summarizing, and interpreting financial data for partnerships and corporations; development of an understanding of the voucher system.

Prerequisite: 91.221.

91.321 INTERMEDIATE ACCOUNTING I 3 sem. hrs.

Preparation and interpretation of principal accounting statements; theoretical discussions of the standards of good accounting practice, with emphasis on current items.

Prerequisite: 91.222.

91.322 INTERMEDIATE ACCOUNTING II 3 sem. hrs.

Standards of good accounting practice with emphasis on non-current items; solution and discussion of various contemporary accounting problems; detailed analysis of major financial statements of business organizations.

Prerequisite: 91.321.

91.323 ACCOUNTING FOR MANAGEMENT DECISION 3 sem. hrs.

Management problems of depreciation methods, valuation of good will, hidden balance sheet reserves, inventory valuation, the price level and historical cost, budget and actual costs, and tax planning. The flows of cost accounting, financial accounting, and tax accounting are considered.
Prerequisite: 91.221 and 222.

91.421 COST ACCOUNTING 3 sem. hrs.

An in-depth study of the three major production costs, raw material, labor, and factory overhead for a job order cost system.
Prerequisite: 91.321.

91.422 AUDITING THEORY AND PROCEDURE 3 sem. hrs.

Principles, standards, procedures, and techniques applicable to internal and public auditing; consideration of the audit report and development of working papers for preparation of the report.
Prerequisite: 91.222.

91.423 FEDERAL TAX ACCOUNTING 3 sem. hrs.

Procedures in accounting as dictated by Federal Tax laws; laws governing the preparation of Federal Income Tax return for individuals and small businesses.
Prerequisite: 91.222.

91.424 STATE AND FEDERAL TAX PROBLEMS 3 sem. hrs.

Group and individual assignments selected from the following areas of advanced tax accounting: Partnerships and corporations, Pennsylvania corporate taxes, estates and trusts, reporting to governmental agencies. Lectures, discussion of issues, practice in the solution of problems.
Prerequisite: 91.423.

91.430 ADVANCED ACCOUNTING I 3 sem. hrs.

Application of basic accounting principles to special problems found in the consolidation and merger of business enterprises. Includes consideration of the bases for such combinations; consolidated statements at date of acquisition, as well as at subsequent dates; foreign branches and subsidiaries.
Prerequisite: 91.322.

91.431 ADVANCED ACCOUNTING II 3 sem. hrs.

Application of basic accounting principles to special problems found in fiduciary relationships, governmental and institutional units, and actuarial science. Emphasis is given to bankruptcy, estates and trusts, government funds, and nonprofit service organizations.
Prerequisite: 91.322.

91.448 ADVANCED COST ACCOUNTING 3 sem. hrs.

A continuation of 91.421 concentrating on process cost, standard cost and budgets. Emphasis is placed on methods used to analyze and interpret cost data.
Prerequisite: 91.421.

91.449 CPA PROBLEMS 3 sem. hrs.

The application of procedures for the solving of a cross-section of complex accounting problems, and the discussion of related theory and practice.

Prerequisite: 91.323, 421, 422, 423, or consent of instructor.

INFORMATION PROCESSING

(Code 92)

92.250 BUSINESS INFORMATION PROCESSING 3 sem. hrs.

Introduction to the use of the computer for problem solving and processing of information. Includes hardware, programming concepts, flowcharting techniques, punched card processing and data communications. "Hands on" experience is available through the use of interactive time-sharing terminals.

92.252 BUSINESS ORIENTED PROGRAMMING 3 sem. hrs.

Designed to familiarize the student with the COBOL language. The student defines, writes, tests, debugs, and documents several COBOL problems.

Prerequisite: 92.250.

92.254 MANAGEMENT INFORMATION SYSTEMS 3 sem. hrs.

Use of computer-based information systems to provide information for effective decision making. Data base concept; data entry; man-machine interaction; data retrieval concepts.

Prerequisite: 92.252.

92.350 ANALYTICAL COMPUTING CONCEPTS 3 sem. hrs.

Designed to familiarize the student with the Basic Assembly Language in an effort to develop further understanding of the computer, including registers, multi-programming, and time sharing. Compiler type languages are reviewed through an object code analysis. Tape and disc concepts.

Prerequisite: 92.252 or 53.271.

92.352 ADVANCED PROGRAMMING 3 sem. hrs.

Advanced concepts of programming in COBOL with major emphasis on table handling, Index Sequential Files, sub-routine linkage and real-time programming. Students are required to write, test, and debug programs.

Prerequisite: 92.252.

92.354 ADVANCED COMPUTER PROCESSES 3 sem. hrs.

A further examination of computer characteristics through the Basic Assembly Language. Topics include lists, chained lists, queues, double-threaded chain lists, program selection and linking, physical level I/O, and macro-writing. Compiler construction is discussed.

Prerequisite: 92.350.

92.356 OPERATING SYSTEMS 3 sem. hrs.

An in-depth look at operating systems to include real and virtual operating systems and communications software and techniques. Includes diagnostic facilities, utility routines, and system commands.

Prerequisite: 92.350.

92.452 SYSTEMS ANALYSIS AND DESIGN 3 sem. hrs.

Basic systems analysis and design, forms design, data collection, data files, file maintenance, systems flow-charting, integration of systems, feasibility studies, systems implementation and documentation.

Prerequisite: 92.252.

92.456 MANAGERIAL COMPUTER APPLICATIONS 3 sem. hrs.

Practical experience in the analysis of business problems. Advanced techniques and concepts of programming and system analysis with major emphasis on record keeping systems, control systems, and management information systems. Students are required to present a systems proposal.

Prerequisite: 92.452.

MANAGEMENT

(Code 93)

93.341 RETAIL MANAGEMENT CONCEPTS 3 sem. hrs.

Presents retailing as a dynamic aspect of the marketing distribution system. Ultimate consumer/market analysis, store location, store layout, merchandising, pricing, promotional issues and problems, are considered, using retail cases.

Prerequisites: Econ 40.211, 40.212.

93.342 MARKETING: PRINCIPLES AND PRACTICES 3 sem. hrs.

A survey of the fundamental features of contemporary marketing systems and of the planning required to make available want-satisfying goods and services to customers at a profit. The role of marketing in society and the institutions which compose the market system. Components of the marketing mix — product planning, distribution, pricing and promotion.

Prerequisites: Econ 40.211 and 40.212.

93.343 BUSINESS FINANCE 3 sem. hrs.

A study of financial problems in the areas of working capital management, capital budgeting, cost of capital, financial structure, financing sources, asset valuation, and dividend policy.

Prerequisites: 91.222, 40.211 and 40.212.

93.344 MANAGEMENT PROCESSES 3 sem. hrs.

Fundamentals of organization and administration. Classical, Behavioral and Management science schools; principles and practices in planning, organizing and controlling business activities; and operating functions in a business firm.

Prerequisite: 40.211, 212.

93.345 PERSONNEL MANAGEMENT 3 sem. hrs.

Policies and current practices in the selection, placement, training-development, evaluation, compensation and motivation of employees at all levels in business firms.

93.346 LABOR AND INDUSTRIAL RELATIONS 3 sem. hrs.

Administration of the relationship between management and the labor force, both where the relationship is governed by a formal agreement and where it is not. Includes the development of the social and legal status of trade unions, the process of collective bargaining and the evolution of modern social welfare programs.
Prerequisite: Econ. 40.211 and 40.212.

93.348 OPERATIONS MANAGEMENT 3 sem. hrs.

An introductory course in operation problems encountered in manufacturing and service industries.
Prerequisite: 93.344.

93.430 SECURITY MARKETS 3 sem. hrs.

A study of stock and bond market operations, security exchanges, and brokerage firms; market and security price behavior; institutional and individual investors.
Prerequisite: 93.343.

93.440 CONSUMER MOTIVATION AND BEHAVIOR 3 sem. hrs.

The role of the consumer as the ultimate buyer of the product. Analysis of the strategy and forces directed at the consumer by the seller. Topics include: models of consumer-buyer behavior, consumer motivation, impact of advertising on product, consumer as decision maker in the market place. Selected cases.
Prerequisite: 93.342.

93.441 INVESTMENT MANAGEMENT 3 sem. hrs.

Principles of security investments: descriptions of security investments; investment planning, security valuation; portfolio strategy; security markets. (*Summer Session only.*)
Prerequisite: 93.343, and permission of instructor.

**93.442 ADVERTISING MANAGEMENT:
ORGANIZATION AND PLANNING 3 sem. hrs.**

Advertising is considered as a marketing/promotional mix component and tool. Advertising strategy and copy media selection; budgeting; advertising research; relevant issues including social, legal and ethical concerns.
Prerequisite: 93.342.

93.443 SALES MANAGEMENT 3 sem. hrs.

The personal selling element of the marketing/promotional program is studied from a management perspective. Recruiting, selecting, training, organizing, motivating, compensating, evaluating and controlling the sales force are treated, as well as management's planning responsibilities including designing intelligence systems, forecasting and establishing sales territories. Special consideration is given to sales management's inputs and integration with marketing management.
Prerequisite: 93.342.

93.444 MARKETING MANAGEMENT 3 sem. hrs.

An advanced study of the marketing function and marketing programs from the systems and managerial viewpoint. Analytic, communicative, and problem-solving skills applied to evaluating and creative planning in the marketing environment. Business marketing cases are used as a vehicle for developing these marketing executive abilities.

Prerequisite: 93.342.

93.445 BUSINESS REPORT WRITING 3 sem. hrs.

Study of the process and structure of communication in the business organization and factors affecting the flow of information. Emphasis on verbal, non-verbal and written communication as they relate to managerial responsibility. Group discussion exercises and individual research and writing projects relate these principles to the attainment of proficiency in managerial communication.

93.446 BUSINESS POLICIES 3 sem. hrs.

The process by which top management sets policies, procedures, objectives and goals studied through analysis of selected cases. Techniques used to solve problems and make decisions are examined. Knowledge of micro-economics and the major functional field of business is assumed.

Prerequisite: Senior standing.

93.447 RESEARCH STUDIES IN MANAGEMENT 3 sem. hrs.

Identification of a problem, investigation, and preparation of a report on an individual basis. The student selects a problem related to some field of Business Administration: accounting, finance, advertising, marketing, general and personnel management.

Prerequisite: Senior standing and consent of the instructor.

93.449 ORGANIZATION THEORY 3 sem. hrs.

A study of business organizations as social systems, and of the interactions between the individual, the group, and the organization.

Prerequisite: 93.344.

93.455 ADVANCED FINANCIAL MANAGEMENT 3 sem. hrs.

The study of business financial problems and the development of advanced financial management practices as used in the decision-making role of the financial manager.

Prerequisite: 93.343.

**93.456 INTERNATIONAL MARKETING
MANAGEMENT 3 sem. hrs.**

Application of the managerial process to the development of international marketing programs. Emphasis is placed on the development and determination of objectives and methods of organization including the execution of research, advertising and distribution activities. Consideration is given to special problems of adopting marketing principles to fit conditions in different countries. Selected cases and readings.

Prerequisite: 93.342.

SECRETARIAL

(Code 94)

94.201 ELEMENTARY TYPEWRITING I 2 sem. hrs.

Presentation and mastery of the keyboard and operating parts of the typewriter; stroking techniques and control; instruction in preparing business letters, manuscripts, carbon copies, envelopes, business forms, and cards; teaching techniques.

94.202 ELEMENTARY TYPEWRITING II 2 sem. hrs.

Production techniques; typing letters, envelopes, and cards; multiple carbon work, preparation of manuscripts, tabulation, and legal forms; preparation of stencils and liquid process masters; teaching techniques.

Prerequisite: 94.201.

94.211 ELEMENTARY SHORTHAND I 3 sem. hrs.

Beginning course in Gregg Shorthand Diamond Jubilee.

94.212 ELEMENTARY SHORTHAND II 3 sem. hrs.

Development of ability to read shorthand notes.

Prerequisite: 94.211.

94.301 ADVANCED TYPEWRITING AND
AND TRANSCRIPTION 2 sem. hrs.

Advanced application of typewriting skills. Coordinated with Advanced Shorthand for those students seeking certification in shorthand.

Prerequisite: 94.202.

94.302 ADVANCED TYPEWRITING 2 sem. hrs.

Advanced applications of typewriting skills. For students not enrolled in the Secretarial curriculum.

Prerequisite: 94.202.

94.311 ADVANCED SHORTHAND 3 sem. hrs.

Practice in dictation and transcription of shorthand, with speed and accuracy stressed; grammar, shorthand penmanship, and principles of teaching of shorthand.

Prerequisite: 94.212.

94.312 SECRETARIAL PRACTICE 3 sem. hrs.

Stenographic and secretarial activities.

Prerequisite: 94.311.

94.333 BUSINESS CORRESPONDENCE AND
REPORTS 3 sem. hrs.

Review of essentials of grammar; study of the vocabulary of business; preparation of business forms; writing business letters of various types; preparation of personal data sheets; organization and preparation of business reports.

Prerequisite: 94.202.

94.412 TOUCH SHORTHAND 3 sem. hrs.

Dictation and Transcription involving the use of a machine keyboard shorthand system. Development of a degree of proficiency in the use of a touch system; techniques for teaching machine shorthand.

Prerequisite: 94.301 or consent of the instructor.

10. SCHOOL OF EXTENDED PROGRAMS

10.1 ORGANIZATION AND FUNCTION

The School of Extended Programs administers and coordinates college-wide efforts to provide life-long education opportunities for citizens of the Central Susquehanna Valley region.

The school also facilitates and coordinates the operation of the offices of Cooperative Education, International Education, and Summer Sessions.

10.2 PROGRAMS

Non-Degree Credit Program

On the assumption that learning should be a life-long process, a non-degree credit program provides for enrollment by an individual in regular undergraduate credit courses without formal admission to the College as a degree candidate. Individuals are invited to use this program as an opportunity to review skills, acquire new skills, or pursue cultural and intellectual interests. Credit courses may be chosen from both day and evening offerings of the college.

College credit earned in appropriate courses taken as a non-degree student may be applied later if the individual seeks and is granted formal admission to a degree program in the college. Courses taken by non-degree students can also be used for certification programs and to meet undergraduate deficiencies for graduate study. (The School of Graduate Studies has its own non-degree regulations. See the Graduate Bulletin.)

Non-Credit Mini-Courses

Non-credit mini-courses provide opportunities for individuals to gain specialized skills and/or information for career purposes or to pursue cultural, recreational, or special interests through short-term experiences without credit.

These courses reflect expressed community needs and demands. A nominal hourly fee is charged.

Attendance Fee Program

The Attendance Fee Program allows individuals to attend college classes without credit. Admission on this basis depends upon available space and the payment of the fee of \$25 per course.

10.3 ADMISSION PROCEDURES FOR NON-DEGREE CREDIT STUDENTS

Application blanks may be secured from the Dean of Extended Programs and are filed in the Office of Admissions. Supporting credentials are required as follows:

(a) Adults who desire to enroll as part-time students must file documentary evidence of high school graduation or certification of high school equivalency.

(b) A student enrolled in another institution of higher education who wishes to take courses at Bloomsburg State College for transfer to the home institution must file a transcript from that institution. It is recommended that the applicant make certain that course work pursued at Bloomsburg State College will be accepted by the home institution.

(c) A student approaching the final year of high school who desires to combine college work with the last year of high school work must file a high school transcript, junior year SAT scores, a letter of recommendation from the high school counselor, and letters of recommendation from two high school instructors in the academic area of intended pursuit. Acceptance for admission requires concurrence by the high school principal.

(d) Graduate students with undergraduate deficiencies must be recommended to the School of Extended Services by the dean of the School of Graduate Studies to pursue such undergraduate courses as the graduate dean recommends.

(e) An individual who wishes to pursue a remedial program to qualify for undergraduate degree admission must submit a high school transcript and an official accounting for all previous college attendance if any.

(f) Students with an earned baccalaureate degree who wish to complete the requirements for Level I or Level II teacher's certification must submit a transcript from the institution that granted the baccalaureate degree and must be recommended to the School of Extended Services by the Dean of the School of Professional Studies.

10.4 ADMISSION TO MINI-COURSES AND ATTENDANCE FEE PROGRAMS

Individuals who wish to take advantage of the mini-course and attendance fee programs are not required to file credentials; in most cases the only formality is that of registration for the course to be taken.

10.5 ACADEMIC ADVISEMENT IN THE SCHOOL OF EXTENDED PROGRAMS

Students who are taking work for teacher certification are assigned to academic advisers in the School of Professional Studies and must secure the signature of an adviser on the Non-degree Course Selection Form. Informal advisement of other students may be arranged through the Dean of the School of Extended Programs.

10.6 SUMMER SESSIONS

Undergraduate and graduate courses are offered in the summer sessions in both on-campus and off-campus locations. Students may schedule as many semester hours in a session as the number of weeks in the session. An overload requires the approval of the appropriate school dean and the Dean of Extended Programs in keeping with the college policy on normal load and overload.

Undergraduate courses are open, without formal application, to regularly enrolled students of Bloomsburg State College who wish to enrich or accelerate their programs of study or make up academic deficiencies. Others must apply for admission through the Office of Admissions.

Students from other colleges are admitted to Summer Sessions upon the filing of a simplified application form supported by a letter of good standing from the chief academic officer of the college regularly attended.

Graduate courses are offered for students who wish to continue their education at the Master's degree level and/or to qualify for permanent certification. (See Graduate Bulletin.)

Special workshops are scheduled to provide teachers in service and other professional groups with specific training in their professional skills at times and locations convenient to their schedules and places of employment.

A copy of the Summer Sessions Bulletin (including both undergraduate and graduate courses) may be obtained from the Dean of the School of Extended Programs. Application forms for undergraduate studies are included with the Bulletin; graduate students secure application forms from the Dean of Graduate Studies.

10.7 INTERNATIONAL EDUCATION

The International Education Program coordinates college-wide efforts to provide multi-cultural experiences for students

and faculty. Interested students may be provided student teaching experience in foreign countries through this program. The Pennsylvania Consortium for International Education sponsors a center for study at Salzburg, Austria, each summer.

Students interested in international education programs at Bloomsburg and/or other colleges are referred to the Director of International Education.

10.8 COOPERATIVE EDUCATION

The cooperative Education Program provides opportunities for students to combine academic instruction on-campus with work experience off-campus. The program, which is optional to selected students according to the specific academic needs of their programs of study, includes internships, work-study programs, and the typical "co-op" experience.

Several internships are available in the Department of Education in Harrisburg each semester. A student may apply for these experiences by contacting the Dean of Extended Programs.

10.9 SUSQUEHANNA VALLEY EDUCATORS ROUND TABLE

This is a cooperative organization in which Bloomsburg State College and several public schools can share ideas, plan programs, arrange for shared resources, and conduct research for the further development of educational programs for the Susquehanna Valley youth.



11. GRADUATE STUDIES

11.1 DEGREES

Graduate study was inaugurated in 1960 with programs leading to the Master of Education degree planned for teachers in service. In 1968, approval was granted to offer a program in history to lead to the Master of Arts degree and in 1971 a program in biology to lead to the Master of Science degree. Additional programs to lead to the Master of Arts and Master of Science degrees have been established; others are in preparation.

The objective of the programs for the degree, Master of Education, is to develop mature, professional teachers. The objective of a Master of Arts program is to advance the student's scholarship in an academic discipline. The objective of programs leading to the Master of Science degree is to develop mature scholarship and competence, especially as these are related to application.

11.2 SCHEDULE OF CLASSES

Graduate classes taught in the regular academic year are usually scheduled in late afternoons, evenings and Saturdays in order to provide opportunity for teachers and individuals engaged in other full-time occupations to further their education. Graduate courses are offered for full-time students in the summer terms.

11.3 GRADUATE CATALOGUE

A graduate catalogue with comprehensive descriptions of courses, programs and regulations is published annually. Requests for copies should be addressed to the Dean of Graduate Studies.



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1. Carver Hall	13. Northumberland	23. President's Residence
2. Schuylkill Residence Hall	Residence Hall	24. Campus Maintenance Center
3. Heating Plant	14. Benjamin Franklin Hall	25. Human Services Center (Propo
4. Scranton Commons	15. Navy Hall	26. Old Science Hall
5. Kehr College Union	16. Columbia Residence Hall	27. Waller Administration Buildin
6. Lycoming Residence Hall	17. Haas Center for the Arts	28. Pergola
7. Elwell Residence Hall	18. Bakeless Center	29. Multi-Level Parking
8. College Store	for the Humanities	30. Softball Field
9. Luzerne Residence Hall	19. Andruss Library	31. Tennis Courts
10. Montour Residence Hall	20. Hartline Science Center	32. Practice Field
11. Maintenance Building	21. Sutliff Hall	33. Department of Nursing
12. Laundry	22. Centennial Gymnasium	



